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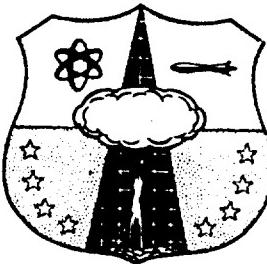
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**STATIC STABILITY TESTS ON A 0.098 SCALE
STANDARD LAUNCH VEHICLE (SLV)-1B
WITH 4-SQUARE-FOOT FIN AREA**

TECHNICAL DOCUMENTARY REPORT NO. AFSWC-TDR-63-21

February 1963

85104



Test Directorate
AIR FORCE SPECIAL WEAPONS CENTER
Air Force Systems Command
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New Mexico

A rectangular stamp with a decorative border. The letters 'ER' are at the top left, 'DDC' is at the top right, and 'TISIA B' is at the bottom right. In the center, it says 'JUN 3 1963'.

Project No. 620-850B-7043

(Prepared under Contract No. AF 29(601)-5603
by C. E. Ziegler, Vought Aeronautics, Division
of Chance Vought Corporation, Dallas, Texas.)

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ABSTRACT

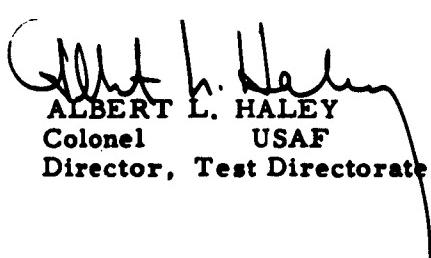
The purpose of the tests performed in the Chance Vought high-speed wind tunnel was to obtain force data to evaluate the static stability characteristics of the SLV-1B with 4-square-foot fins.

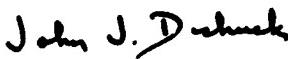
The model was instrumented with a six-component internal strain gage balance and two base pressure probes to determine the forces on the model. The model was then placed in the tunnel and tested in the Mach number range of 0.6 through 5.0, and a Reynolds number range of 6 million/ft. to 20 million/ft. The model attitude was varied from -10 to +10 degrees in the pitch plane.

The results obtained were force and moment data in the body axes; these results are presented in tabulated form with selected coefficients presented in plotted form.

PUBLICATION REVIEW

This report has been reviewed and is approved.


ALBERT L. HALEY
Colonel USAF
Director, Test Directorate


JOHN J. DISHUCK
Colonel USAF
DCS/Plans & Operations

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1. INTRODUCTION.

This report presents data obtained from tests in the Chance Vought high-speed wind tunnel on a 0.098 scale model of the Standard Launch Vehicle (SLV)-1B with 4-square-foot fins. The test was conducted during the period from 16 October through 20 October 1962. Results are presented in tabulated form with selected coefficients presented in plotted form. A data analysis presentation is also included in section 8.

The model consisted of the same basic parts as the Scout Derivative Model (reference 1). The only changes were in the nose shape and the fin location. Tests were run on the complete body and also on the second stage. Provisions were included for the removal and adjustment of the fins. There were no fins on the second stage.

2. SUMMARY.**a. General information.**

| | |
|---|---|
| High-speed wind tunnel test No. | 89 |
| Customer's test designation | None |
| Test dates | 16-22 Oct 1962 |
| Model | Standard Launch Vehicle -1B |
| Model scale | 098 |
| Test dynamic pressure | 900-2500 psf |
| Mach numbers | 0.6, 0.8, 1.0, 1.2, 2.0, 3.0, 4.0, 5.0 |
| Test Reynolds number. | 6 million/ft. to 20 million/ft. nominal |
| Test authorization | Contract No. AF 29(601)-5603 |
| Occupancy hours | 21 hrs. 9 min. |
| Number of runs | 29 |
| Customer representative | D. E. Poucher |
| Wind tunnel test engineer | C. E. Ziegler |

b. Test objectives.

To determine the static stability characteristics of the model in the Mach number range of 0.6 to 5.0.

3. NOMENCLATURE.

Forces and moments tending to produce a climbing right turn, clockwise roll maneuver are positive. Directions assume the model to be at $\phi = 0$ and the observer to be viewing upstream.

Coefficient data are presented in the body and stability axes.

| PNT | Data sequence number, (card number) | | |
|-----------------------|--|--|-----------------------------------|
| ALPHA | Angle of attack in the pitch plane of the model, corrected for deflection, positive nose up. | | degrees |
| N C _N | Normal force coefficient, body axes | | <u>normal force</u> qS |
| PM C _m | Pitching moment coefficient, body axes | | <u>pitching moment</u> qSc |
| Y C _Y | Side force coefficient, body axes | | <u>side force</u> qS |
| YM C _n | Yawing moment coefficient, body axes | | <u>yawing moment</u> qSb |
| RM C ₁ | Rolling moment coefficient, body axes | | <u>rolling moment</u> qSb |
| A C _A | Axial force coefficient corrected to the equivalent of free stream static pressure acting on the base body axes | | C _{AU} - C _{AB} |
| AU C _{AU} | Axial force coefficient as recorded uncorrected for base pressure effects | | <u>axial force</u> qS |
| AB C _{AB} | Axial force coefficient due to base pressure | | $(P_B - P_S) S_B$ qS |
| L C _L | Lift force coefficient, stability axes | | <u>lift force</u> qS |
| D C _D | Drag force coefficient corrected to the equivalent of free stream static pressure acting on the base, stability axes | | <u>drag force</u> qS |

| | | |
|-------|--|------------------------------------|
| CP | Center of pressure, positive upstream, inches from sta 25.5 for B_3 configura- tion and 14.1 for B_4 configuration | $\frac{C_m(c)}{C_N}$ |
| TO | Free stream stagnation temperature | degrees Rankine |
| Po | Free stream stagnation pressure | psia |
| PS | Free stream static pressure | psia |
| Q q | Free stream dynamic pressure | psf, psi |
| M | Free stream Mach number | |
| RN/L | Reynolds number per foot | |
| S | Reference area, sq. in. | 7.2576 |
| c | Reference length, in. | 3.038 |
| b | Reference length, in. | 3.038 |
| S_B | Base pressure correction area, sq. in. | 4.909 (B_3) 4.909 (B_4) |

Body nomenclature

| | |
|------------|-------------------------|
| B_3 | Complete body less fins |
| B_4 | B_3 less first stage |
| F_2 | Fins |
| Δ_F | Fin cant angle |

4. DESCRIPTION OF FACILITY.

The Chance Vought Corporation high-speed wind tunnel is an atmospheric-exhaust, blow-down tunnel with a 4- by 4-foot test section size. The Mach number range of the tunnel is from 0.5 to 5.0. Air is stored in six tanks, with a total volume of 28,000 cubic feet, at a maximum pressure of 600 psia and a nominal temperature of 100 degrees Fahrenheit.

The circuit utilizes both supersonic and transonic test sections, each 4 by 4 feet in cross section and slightly over 5 feet long. For supersonic operation

a single-peak variable diffuser is placed downstream of the supersonic test section. For transonic operation the variable diffuser is removed from the circuit and replaced with a porous-wall, transonic-test section with 22 percent wall porosity. The transonic plenum is pumped by ejector action of the main tunnel airstream acting on controllable ejector flaps located downstream of the test section. Adjustable choking flaps, also located downstream of the test region, are utilized for subsonic Mach number adjustment. Figure 1 shows the general tunnel arrangement and identifies various areas within the facility.

5. MODEL AND INSTRUMENTATION.

The model tested was a 0.098 scale model of the Standard Launch Vehicle-1B with 4-square-foot fins. The model consisted of two basic bodies and two tail configurations. One body configuration was the second stage of the missile and was approximately 25 inches long. The other body configuration was the second stage with a first stage added to give it a total length of 49.09 inches. The fins were the same as those used on the Scout Derivative model described in reference 1. One set of fins had zero incidence angle and the other set had 3 degrees incidence angle to produce positive roll. Figures 2 and 3 show the installation of the two body configurations in the tunnel. Figure 4 shows the dimensions of the two bodies and the fins, and the orientation for each component.

Model forces were measured by the VB-13 six-component internal strain gage balance mounted on sting configuration number 1 with sting extension CVS54377 (reference 2). Figures 5 and 6 show the general arrangement and identify the sting sections. Two static pressure probes were located in the cavity of the body to measure base pressure. Each probe was connected to a separate pressure transducer to provide a backup system.

In addition to force balance and base pressure transducer outputs, tunnel parameters were also recorded. These parameters consisted of angle of attack, stagnation and static pressures, and stagnation temperature.

6. TEST PROCEDURES.

Preliminary preparations for the test included calibration of the VB-13 balance and the base pressure transducers. The sting and extension were

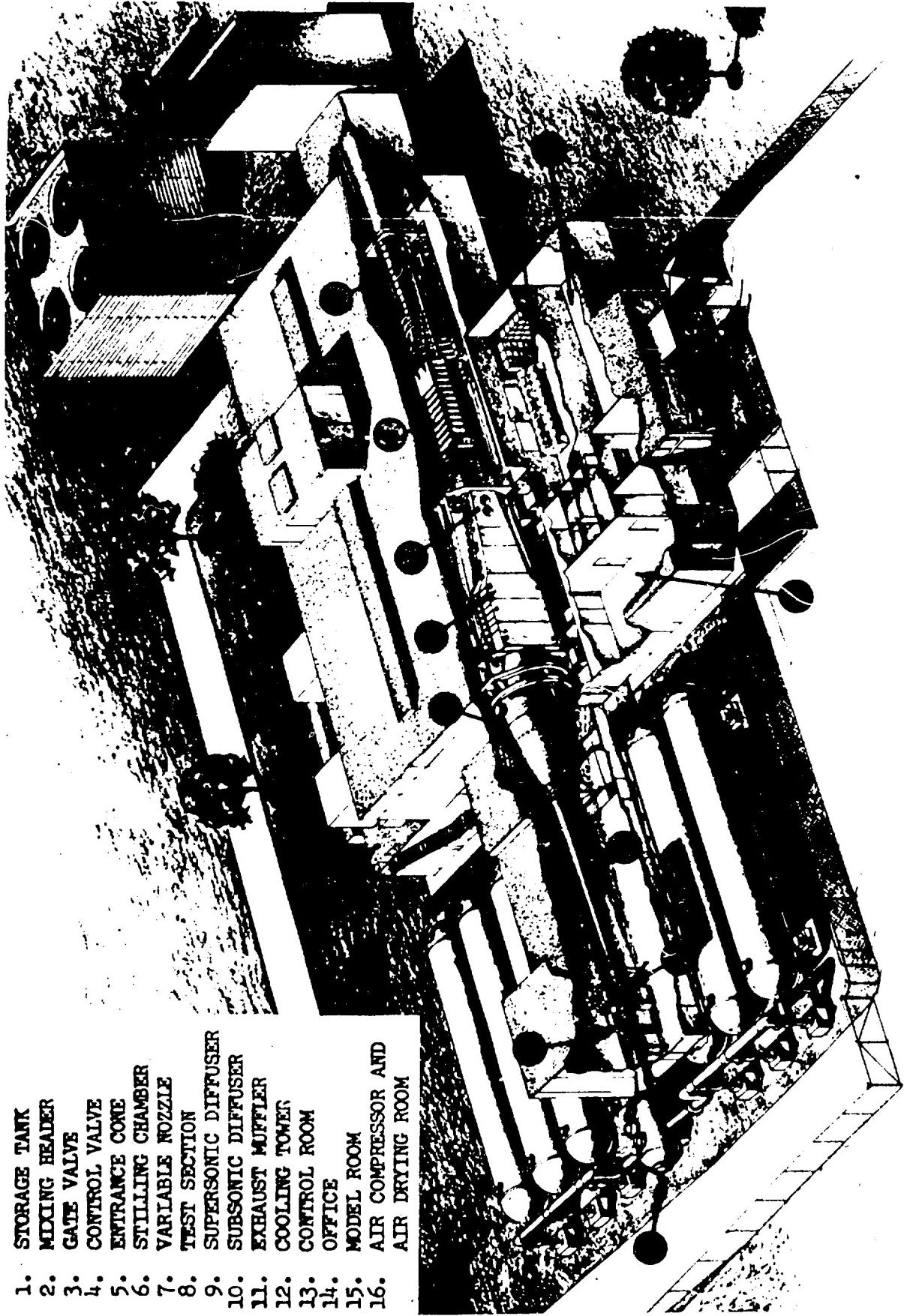


Figure 1. Chance-Vought high-speed wind tunnel.

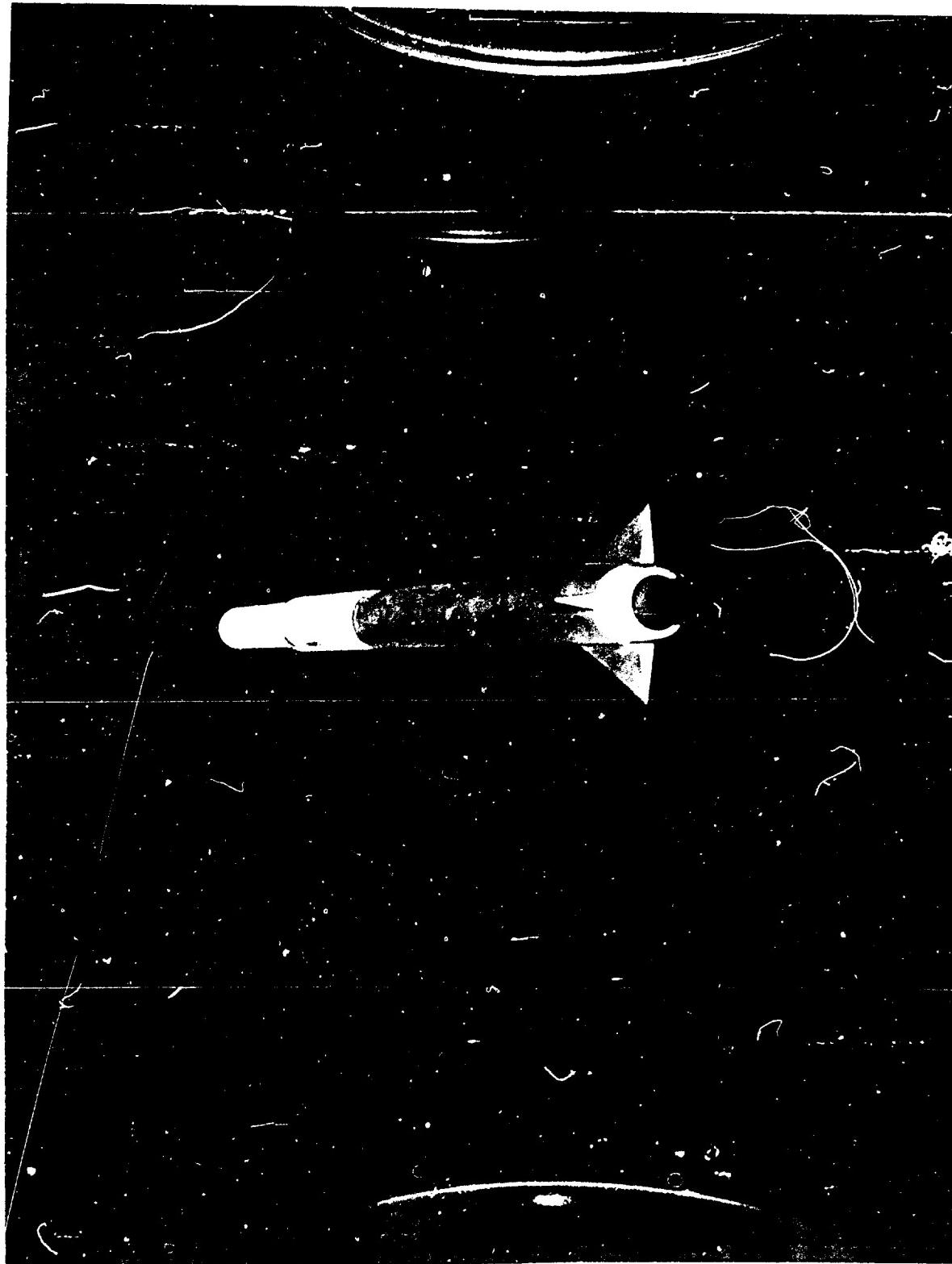


Figure 2. SLV-1B Model mounted in tunnel.

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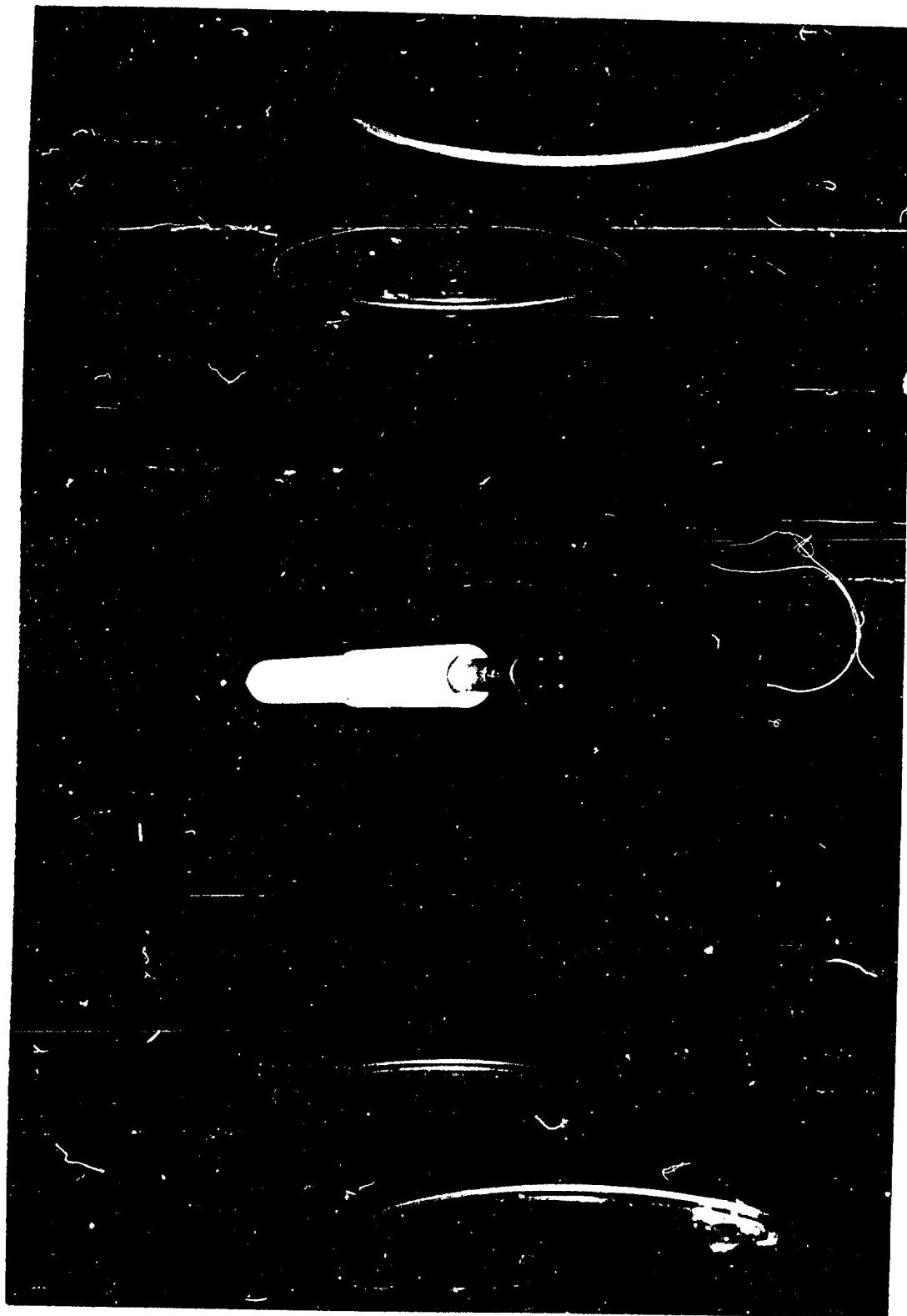
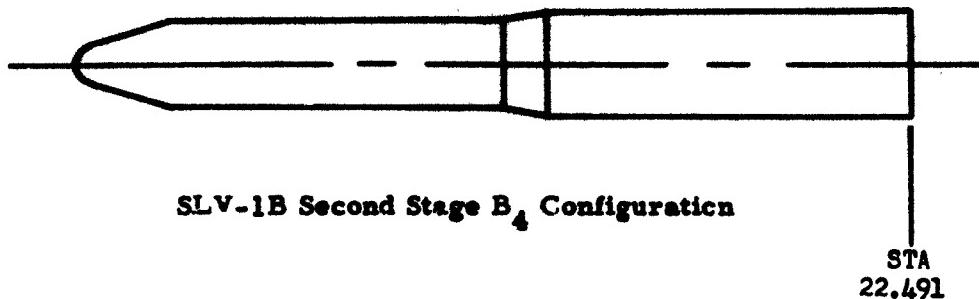


Figure 3. Second stage of SLV-1B mounted in tunnel.

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SKETCH OF THE SLV-1B MODEL

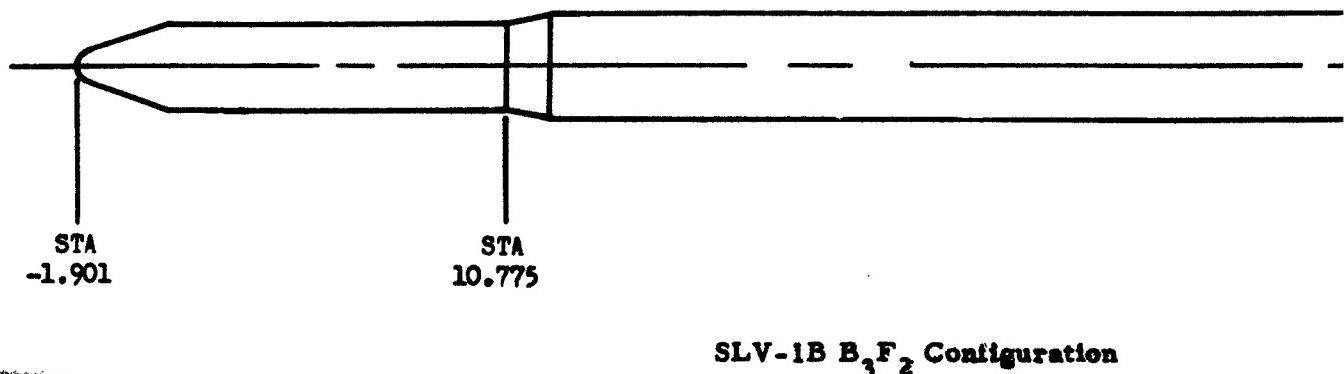
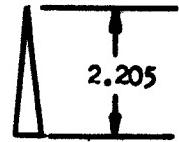
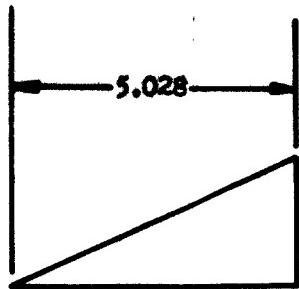


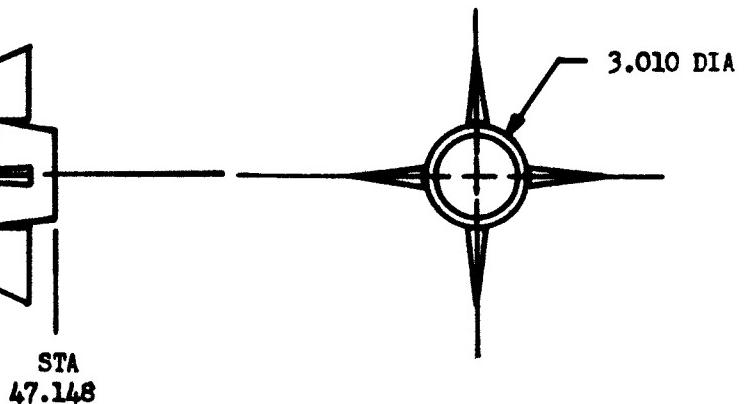
Figure 4. Dimensions of model.

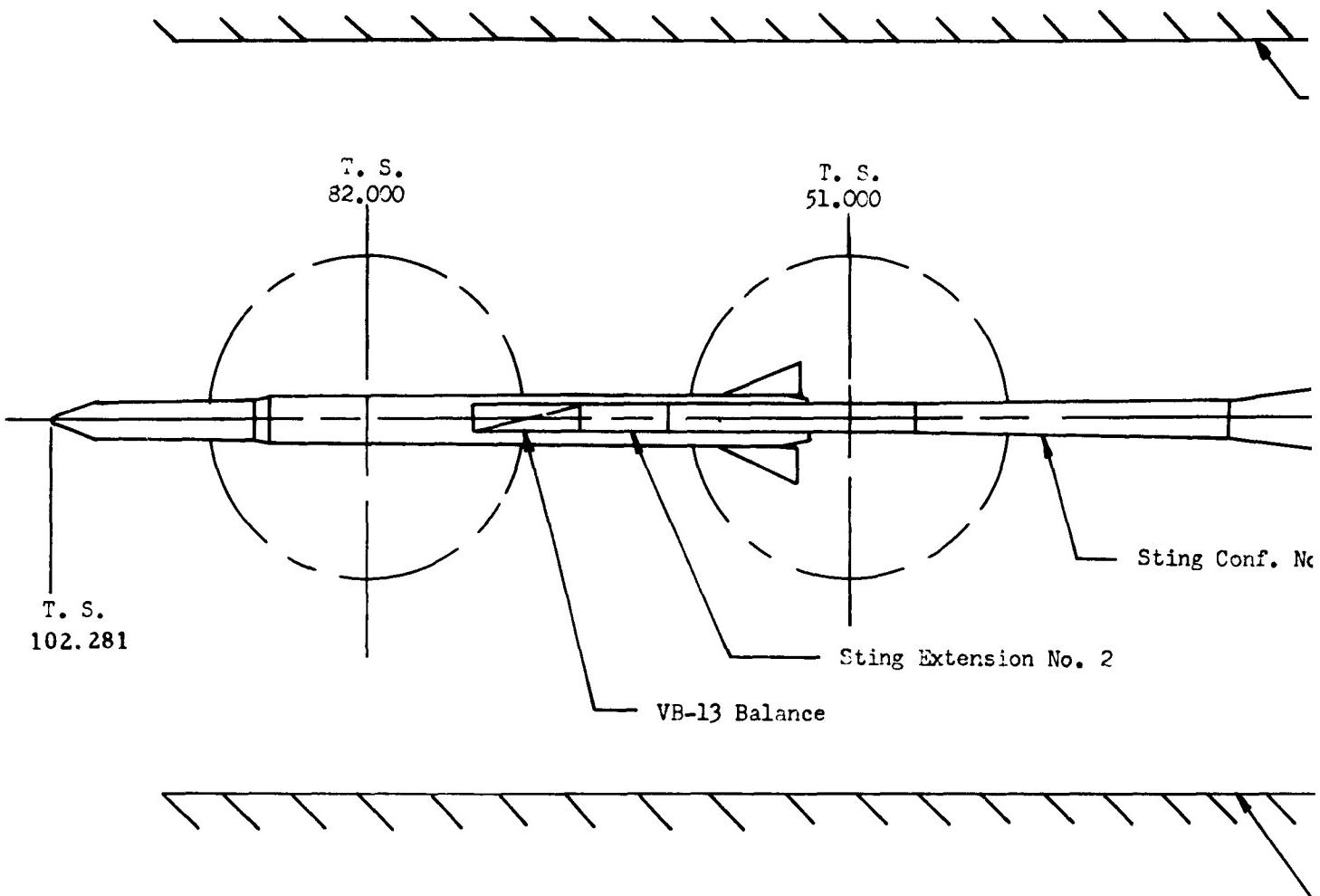
STA
46.507



SLV-1B F₂ Fins

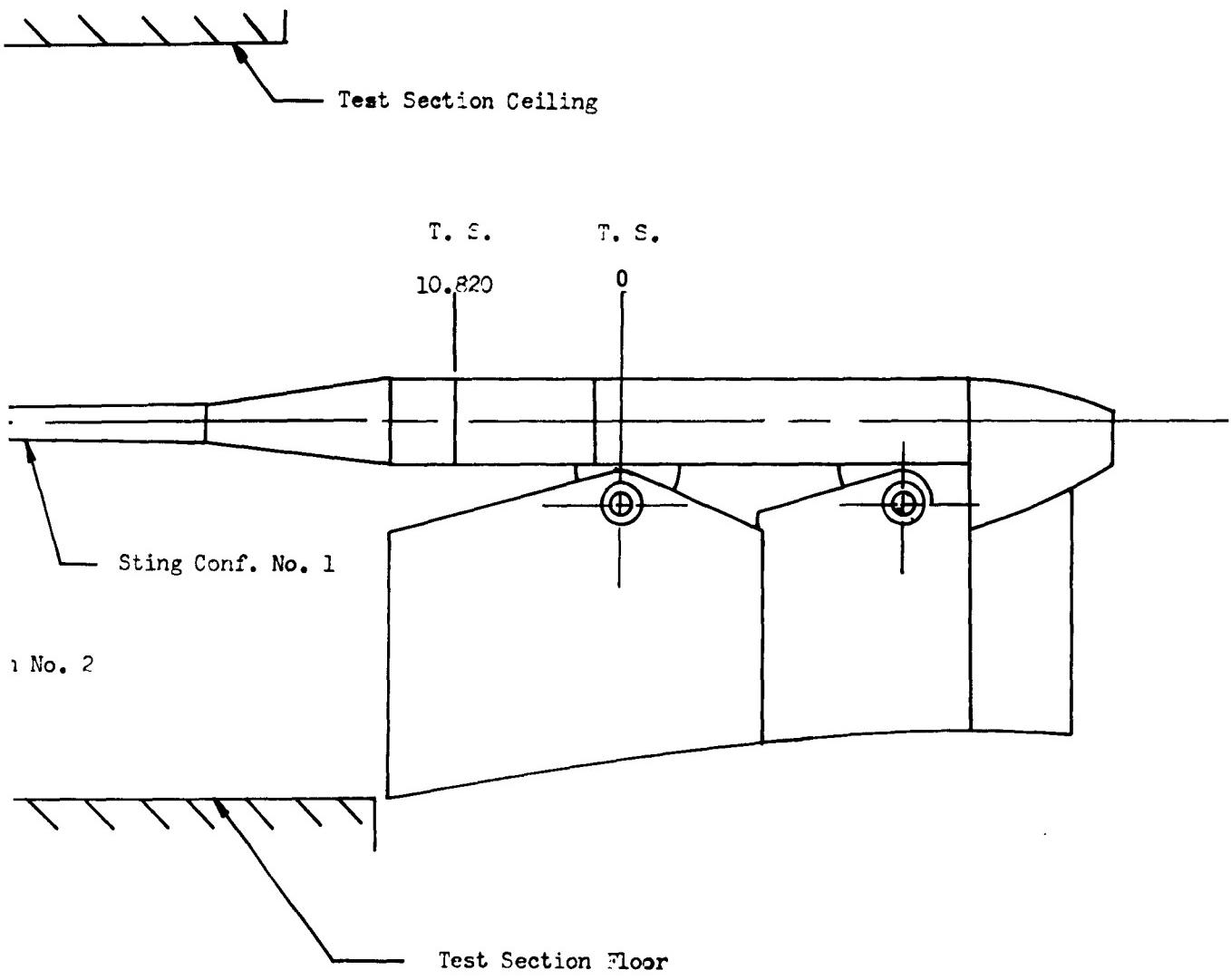
Note: The fin with the 3 degree cant angle is the same as the fin above except it is aligned at a 3 degree angle with the body axes.





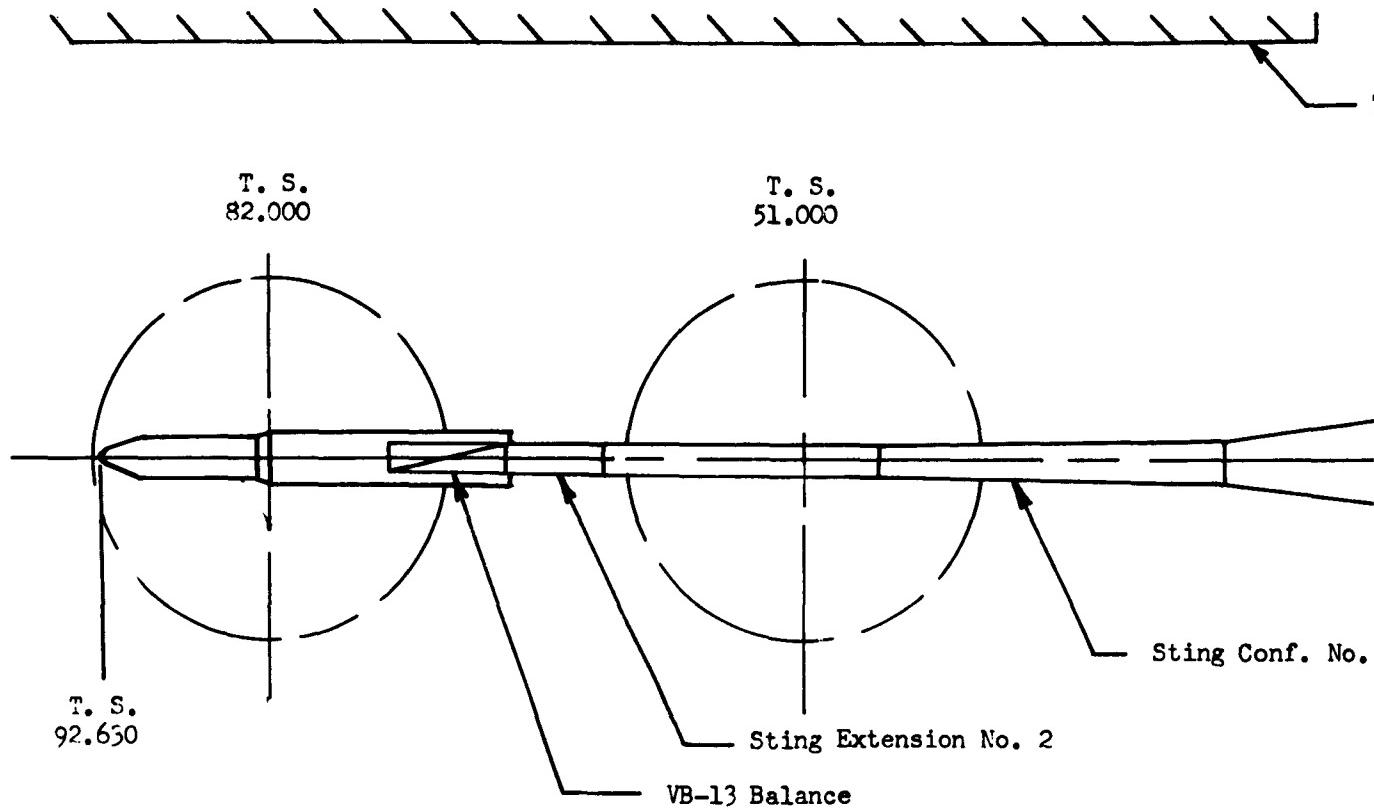
SLV-1B Installation Ske

Figure 5. SLV-1B Installation sketch.



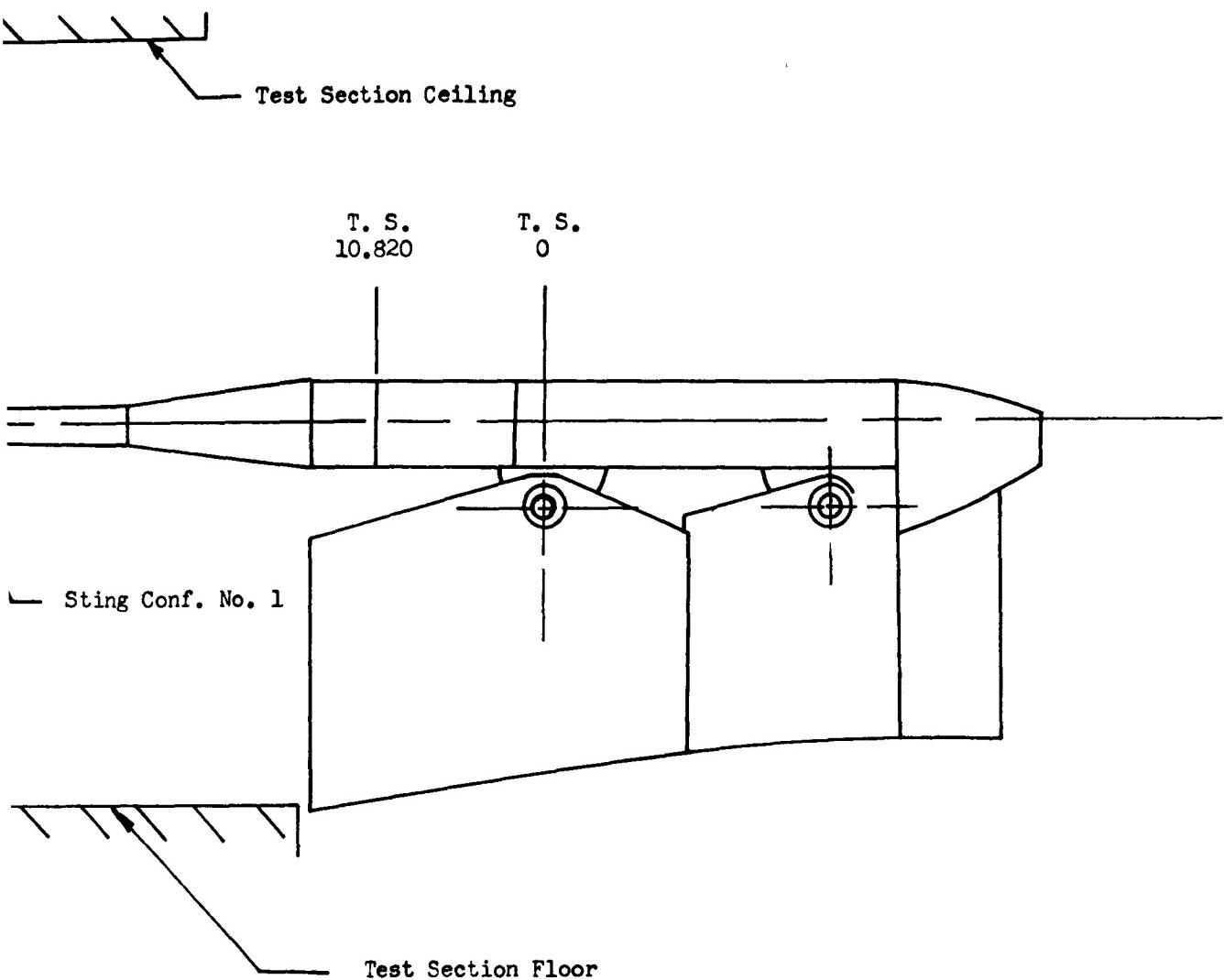
LV..1B Installation Sketch





SLV-1B Second Stage Install

Figure 6. SLV-1B Second stage installation sketch.



Second Stage Installation Sketch



also calibrated for load deflections. Following installation of the model in the tunnel, additional load checks were made to ensure that the balance and data systems were functioning properly.

For test runs the tunnel was started with the model at zero angle of attack. When the flow was established the model was pitched to the maximum negative angle of attack, then back through zero to the maximum positive angle of attack, and returned to zero before the termination of the run. The angle of attack range through which the model was pitched was from a negative 10 degrees to a positive 10 degrees.

The test was conducted in the Mach number range of 0.6 to 5.0 and a dynamic pressure range of 900 to 2,500 psf.

Data cards were sampled before and after each run to obtain "wind on" and "wind off" data. Tare cards were also sampled before each run to permit a correction for model weight tare effects.

Data were sampled at the rate of 10 times per second for the body-alone and second-stage configurations, and 5 times per second when the fins were on the body. The data were digitized and recorded on magnetic tape. At the conclusion of each run, data cards were punched from the tape. The data cards were checked after each run to ensure satisfactory results. After the cards were accepted, the model and/or Mach number was changed. On-the-line data plotting was done by analog computer data reduction to parallel and check digitized data.

7. DATA REDUCTION.

Static force data were reduced by digital computer to obtain nondimensional force and moment coefficients about the body axes. A complete description of the data reduction procedure is presented in reference 3.

All coefficients were corrected for model weight tares, and angle of attack was corrected for sting and balance deflection. Axial force data are presented in three coefficient forms: axial force corrected for base pressure (C_A), axial force uncorrected for base pressure (C_{AU}), and axial force due to base pressure (C_{AB}).

Pitching moment was referenced to station 25.5 for the B₃ configurations and to station 14.1 for the B₄ configuration.

To present some means of determining data accuracies, static accuracies of the VB-13 balance are presented. The tabulated accuracies were obtained by computing a "root mean square" deviation between the applied and calculated loads over the maximum load range.

Results are as follows:

| <u>Component</u> | <u>Load</u> | <u>Coefficient</u> |
|------------------|-------------|--------------------|
| Normal force | 0.74 lb. | 0.0163 |
| Side force | 0.44 lb. | 0.0097 |
| Axial force | 0.35 lb. | 0.0077 |
| Rolling moment | 0.5° in-lb. | 0.0043 |
| Pitching moment | 0.74 in-lb. | 0.0054 |
| Yawing moment | 0.44 in-lb. | 0.0032 |

8. DATA ANALYSIS.

The experimental data show that the vehicle's first-stage static margin is approximately 15 inches less than originally estimated at Mach 3.8, which, for the nominal 76° trajectory, is the critical point. It appears that this is due to the fin effectiveness which is considerably lower than estimated. The vehicle's drag is higher transonically and lower supersonically than the original estimates. Fin rolling moment characteristics are generally as estimated except for lowered transonic effectiveness. At first-stage separation of the flight article, the nose cone and heat shield are jettisoned, exposing the payload. A model of this second stage was not available for these wind tunnel tests. The second stage as referred to in these tests consists of the vehicle forebody forward of body station 238.5 and is not representative of the actual vehicle second stage. This configuration was tested in an attempt to further define the body-alone center of pressure location and load distribution. The vehicle's second-stage static margin is more negative than estimated while the drag is less than estimated.

a. Wind tunnel tests.

The model tested was a 0.098 scale version of the SLV-1B. Transonic and supersonic tests were made on the first-stage configuration (with and without fins) and supersonic tests were made on the second-stage configuration to confirm the vehicle's estimated aerodynamic characteristics. The test runs on the first stage with and without fins were made to determine the fin effectiveness.

A standard six-component force balance was used to obtain normal force, pitching moment, axial force and rolling moment (yaw and yawing moments were negligible). The axial force (zero lift drag) data have been corrected to zero base drag.

The center of pressure locations are determined using the pitching moment and normal force derivatives; therefore, c.p. is directly effected by errors in both of these derivatives. The normal force and pitching moment errors are a function of several things; one of these being whether or not the normal force vector acts between the balance strain gages. For total vehicle tests, where the c.p. is well aft of the nose and between the balance strain gages, the c.p. location can be determined with ± 4 to 6 inches for the full-scale vehicle. However, for body-alone tests, where the c.p. is close to the nose of the vehicle and well outside of the balance strain gages this error can be increased by as much as a factor of 6. For these reasons, the center of pressure data for the body alone (and consequently the fin alone) from these tests should be used with caution. The values of normal force are much less sensitive to this effect than the computed values of center of pressure.

The test data for total vehicle C_{N_a} S are below predicted values at Mach numbers below Mach 4.0. The maximum variation is 18% at Mach 0.6. At Mach numbers from 3 to 5 the disagreement between predicted and measured is within the usual accuracy of prediction methods.

The experimental body-alone data are greater than estimated supersonically and less than estimated transonically. Part of the disagreement between experiment and prediction for the full first-stage configuration is due to this fact.

The C_{N_a} S of the fin plus carryover was determined by subtraction of body-alone C_{N_a} S from total-vehicle C_{N_a} S. Test data were consistently below the predicted values by 6% to 27% with the greatest disagreement occurring between Mach 2.0 to 3.0.

Test points produced a smooth curve with no unexpected variations in the pitching moment derivative.

The test data have been corrected by using a calculated friction drag and adding to that the pressure drag obtained from the wind tunnel and the calculated drag for six explosive bolt fairings.

Corrected wind tunnel data for the total vehicle are higher subsonically and transonically but lower supersonically than the estimates. The maximum variations were a 20% increase over the estimated data at Mach 1.0 and a 14% decrease below the estimated data at Mach 5.0.

Body-alone test data agree very well with the estimated data.

Zero lift fin drag, $(C_{D_0}S)_{fin}$, was obtained by subtracting the $C_{D_0}S$ of the body alone from the $C_{D_0}S$ of the total vehicle. The fin drag was underestimated subsonically and transonically and overestimated supersonically.

The c.p. variation for the total vehicle and body alone were computed from experimentally determined C_{m_a} and C_{N_a} values.

The test data (essentially rigid body) values of center of pressure for the total vehicle have the same trend as the predictions but indicate that the vehicle is less stable supersonically than estimated. The maximum decrease in static margin is about 15 inches or 0.484 body diameter. The maximum decrease in rigid body static margin occurred at Mach 3.8 and dropped from 35 inches of static margin to 20 inches.

In view of the problems of measuring the body-alone center of pressure no firm comments may be made concerning the disagreement between the experimental and predicted values. Since the body alone data are also used in determining the fin center of pressure the same caution must be taken when evaluating or using the fin center of pressure data.

Wind tunnel data and estimates for rolling moment coefficient are in generally good agreement. Test data did not show the predicted sharp peak transonically and are about 17% below the estimate in this region; for speeds in excess of Mach 2.0, test data are slightly higher. Supersonically the maximum difference between test and predicted values occurs at Mach 5.0 and is about 9.5%.

b. Second stage.

Second-stage aerodynamic data parameters were determined experimentally from Mach 2.0 to 5.0. The experimental normal force data agree very well with the predicted value at Mach 2.0. However, as the velocity increases, the test results show a gradual increase while the predicted value is constant for speeds in excess of Mach 3.0. The difference between the two values is a maximum of 25% at Mach 5.0.

A negative static margin of 75 inches was predicted at the Mach number for second-stage ignition; test data showed this negative static margin to be about 100 inches. In the range from Mach 3.0 to Mach 5.0, the maximum difference between test and prediction occurred at Mach 3.0 where the experimental static margin was 17% greater than predicted.

The experimental drag was lower than estimated over the entire test range. The maximum difference between predicted and measured drag occurred at Mach 4.0 where the test data were 14% below the predicted values.

9. CONCLUSIONS AND RECOMMENDATIONS.

The following conclusions may be derived from the wind tunnel tests on the SLV-1B model.

a. First stage.

The vehicle's normal force parameter is generally less than estimated with the largest differences occurring at transonic speeds. This difference arises partly from the body-alone characteristics and partly from the fin characteristics.

The rigid body center of pressure is forward of the estimates, thus resulting in a less stable rigid vehicle than estimated. This difference amounts

to about 15 inches decrease in static margin at a Mach number of 3.8. It appears that the primary reason for this effect lies in a lower fin effectiveness than estimated.

The test data show that the vehicle's zero lift drag parameter is less supersonically and greater transonically than the estimated values. Differences between fin-measured and estimated drags essentially account for these differences.

Estimated center of pressure variations due to the flexibility for the nominal 76° trajectory, when added to test data, show the vehicle to be unstable above Mach 3.0.

b. Second stage.

Normal force and zero lift drag force parameter estimates differed from test data by a maximum of 25 and 14% respectively between Mach 3.0 and 5.0. The parameters were under- and over-estimated respectively and the differences increased with Mach number.

Test data gave values for center of pressure 25 inches forward of the predicted location for an increase in the negative static margin of 33% at Mach 3.0. The difference decreases as Mach number increases resulting in a 15-inch difference at Mach 4.0.

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APPENDIX I

HIGH-SPEED WIND TUNNEL RUN LOG

HIGH SPEED WIND TUNNEL RUN LOG

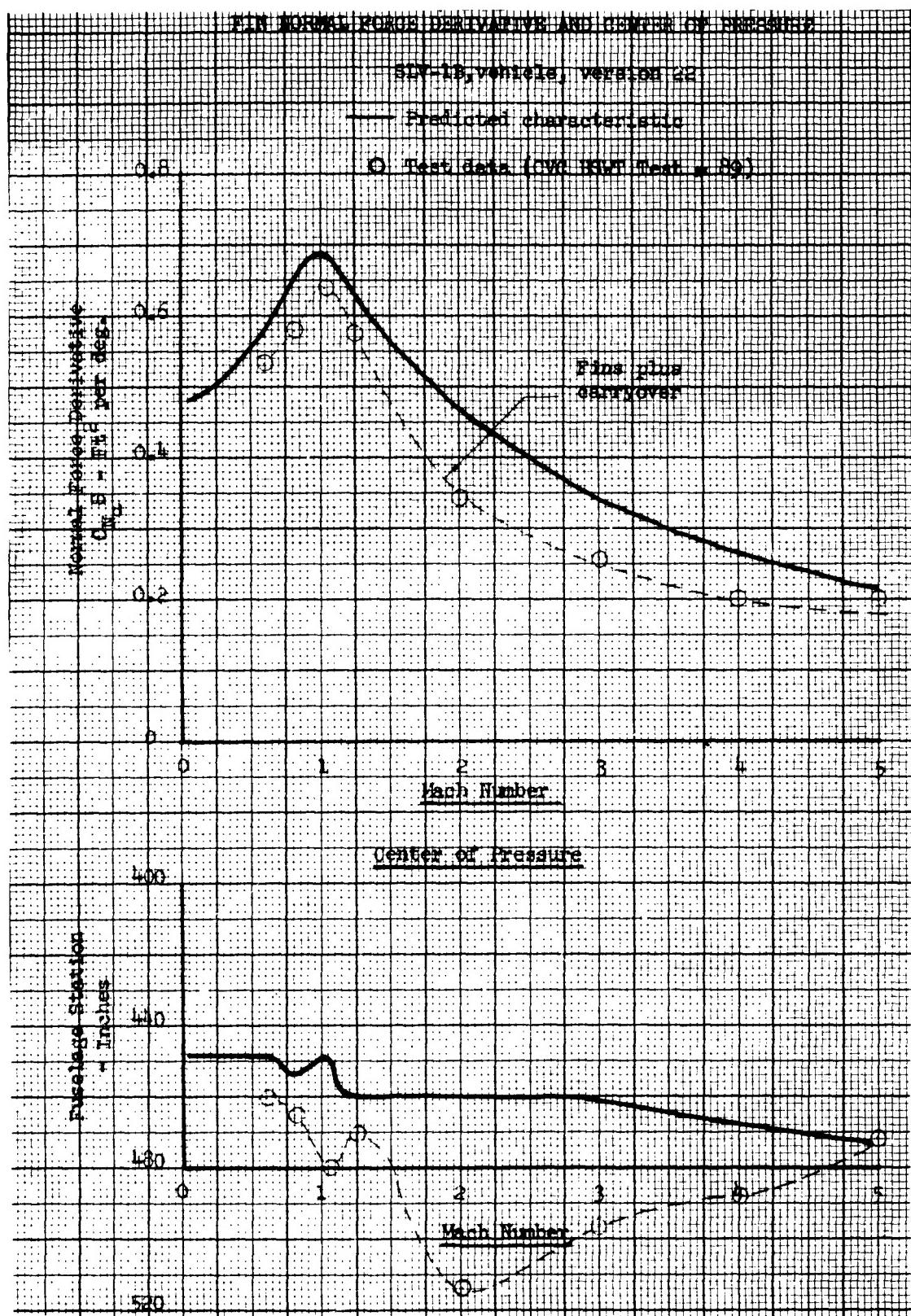
| RUN No. | CONFIGURATION | MACH NO. | Q PSF A | α RANGE DEGREES | δ | Δ F | COMMENTS |
|------------|-------------------------------|-------------|------------|---------------------------|----------|---------------|----------|
| 1 | B ₃ | 1.2 | 1440 | +10 to -10 | 0 | - | |
| 2 | B ₃ F ₂ | " | " | " | " | 0 | |
| 3 | " | " | " | " | " | 3 | |
| 4 | " | 1.0 | " | " | " | " | |
| 5 | " | .8 | 1300 | " | " | " | |
| 6 | " | .6 | 900 | " | " | " | |
| 7 | " | " | " | " | " | 0 | |
| 8 | " | .8 | 1300 | " | " | " | |
| 9 | " | 1.0 | 1440 | " | " | " | |
| 10 | B ₃ | " | " | " | " | - | |
| 11 | " | .8 | 1300 | " | " | - | |
| 12 | " | .6 | 900 | " | " | - | |
| 13 | " | 2.0 | 1440 | " | " | - | |
| 14 | B ₃ F ₂ | " | " | " | " | 0 | |
| 15 | " | " | " | " | " | 3 | |
| 16 | " | 3.0 | " | " | " | " | |
| 17 | " | " | " | " | " | 0 | |
| 18 | B ₃ | " | " | " | " | - | |
| 19 | " | 4.0 | " | " | " | - | |
| 20 | B ₃ F ₂ | " | " | " | " | 0 | |
| 21 | " | " | " | " | " | 3 | |
| 22 | " | 5.0 | " | " | " | " | |
| 23 | " | " | " | " | " | 0 | |

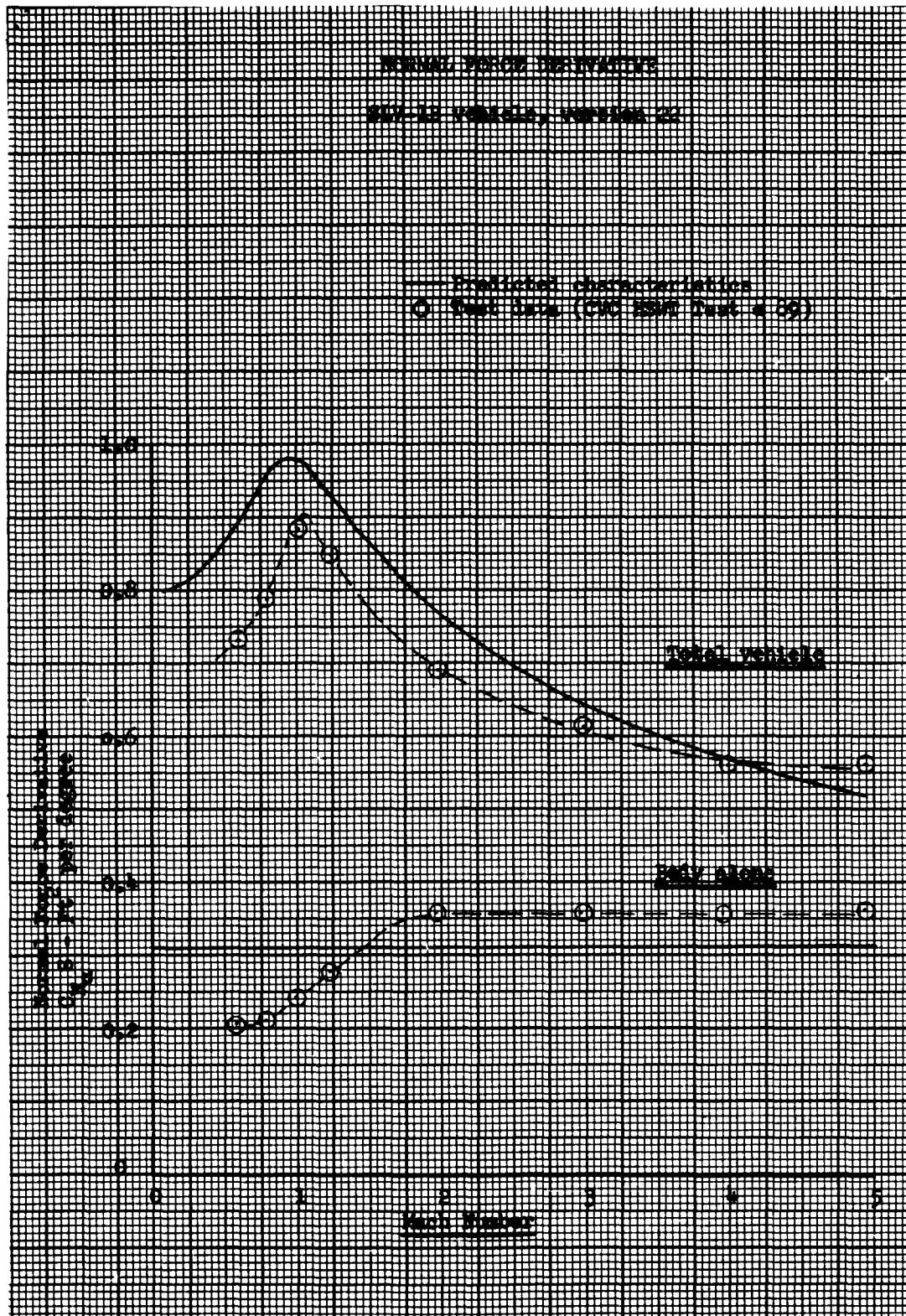
HIGH SPEED WIND TUNNEL RUN LOG (cont'd)

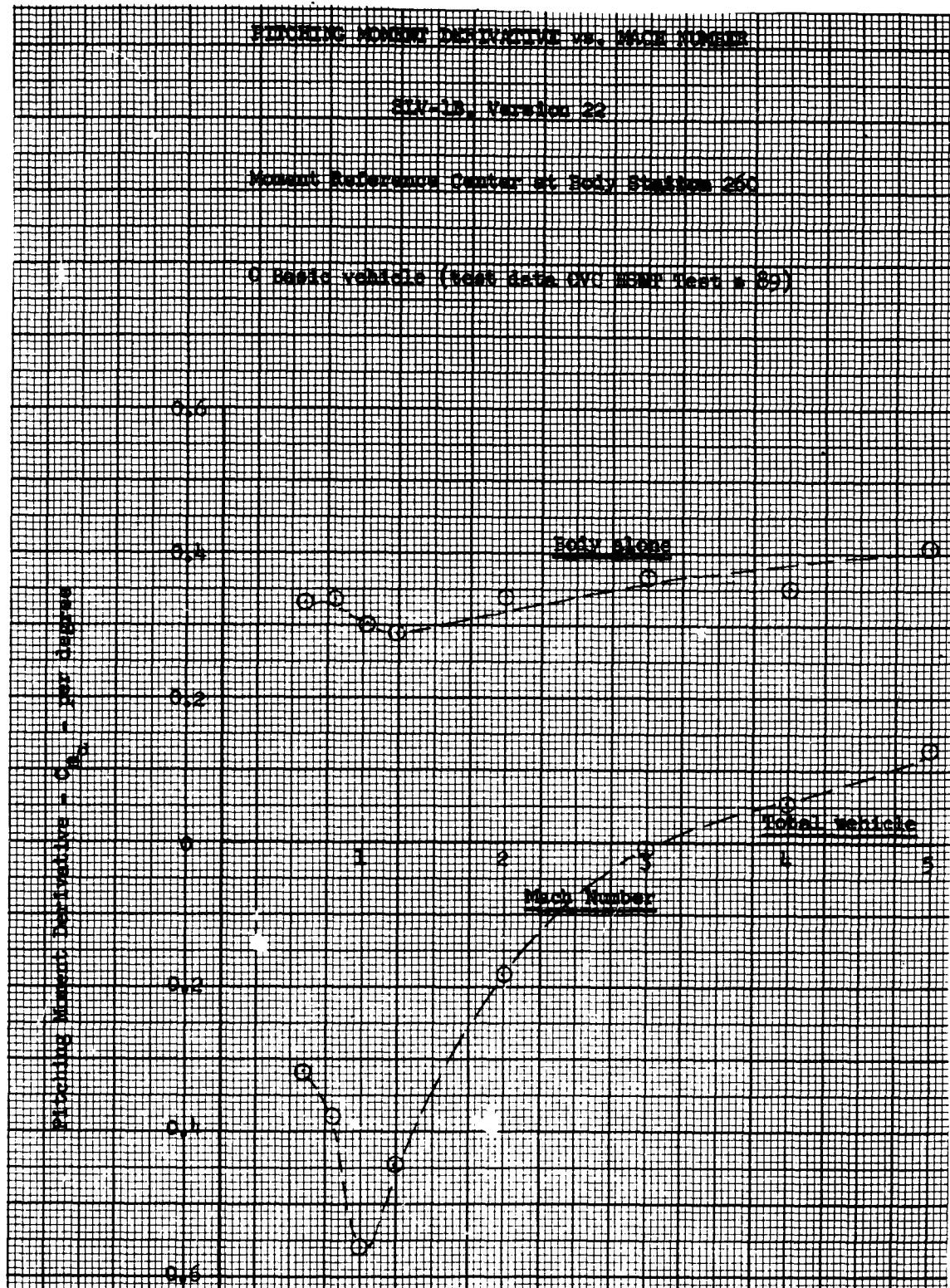
| RUN NO. | CONFIGURATION | MACH NO. | Q PSIFA | α RANGE DEGREES | ϕ | Δ_F | COMMENTS |
|---------|-------------------------------|----------|---------|------------------------|--------|------------|------------|
| 24 | B ₃ | 5.0 | 1440 | +10 to -10 | 0 | - | |
| 25 | B ₄ | " | " | " | " | - | |
| 26 | " | 4.0 | 2500 | " | " | - | |
| 27 | " | 3.0 | " | " | " | - | |
| 28 | " | 2.0 | " | " | " | - | |
| 29 | B ₃ F ₂ | .6 | 900 | " | " | 0 | Rerun of 7 |

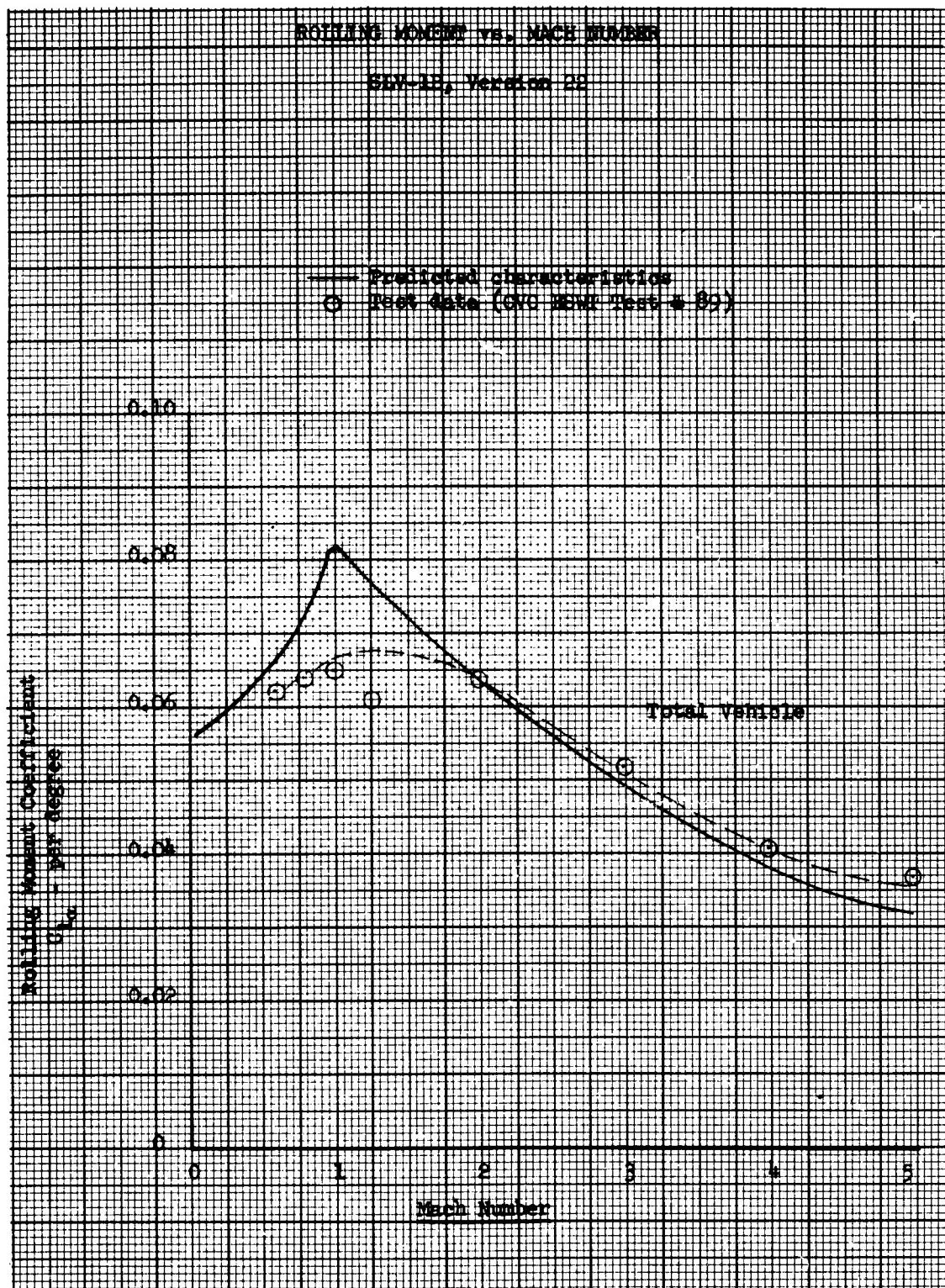
APPENDIX II

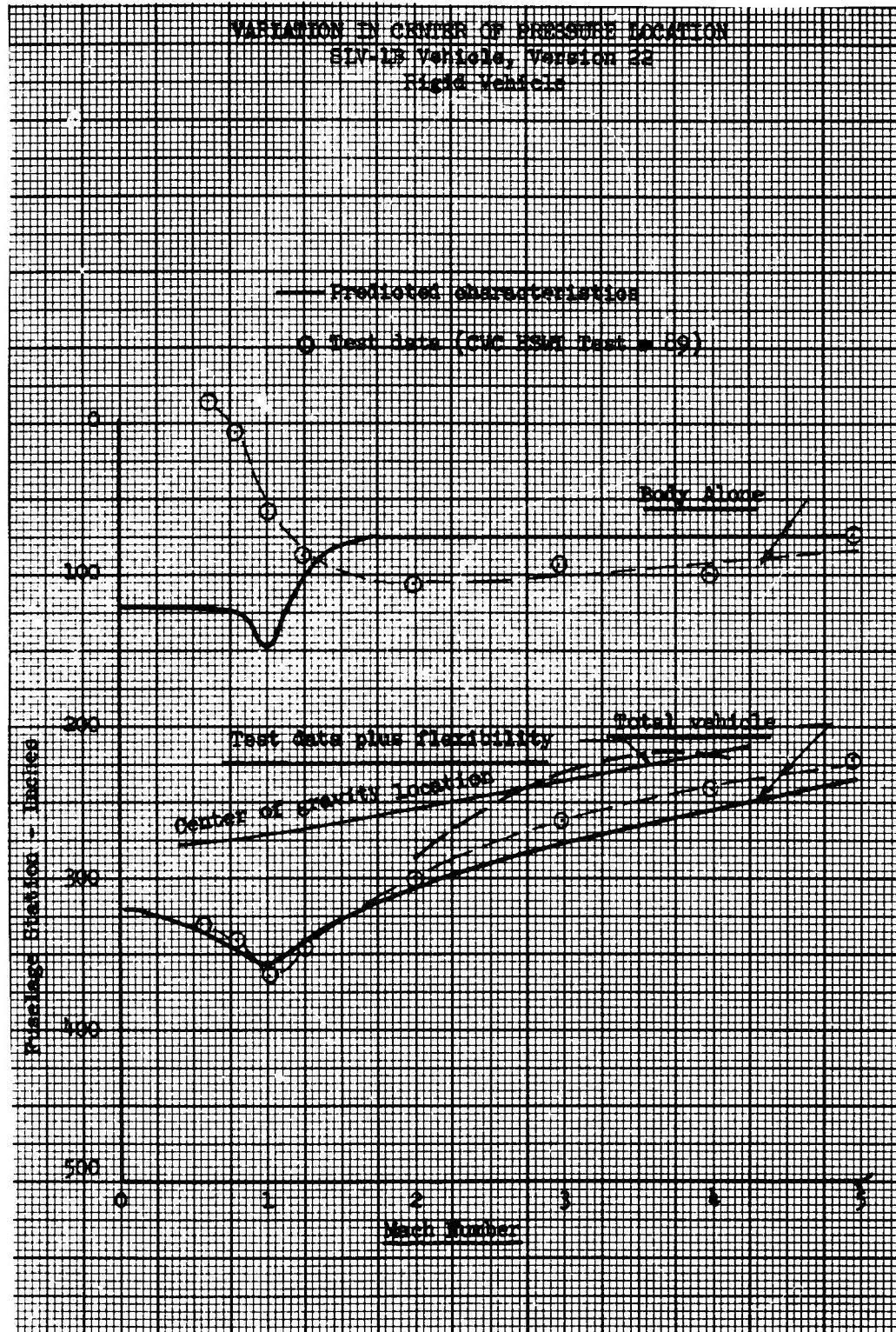
ANALYSIS PLOTTED DATA

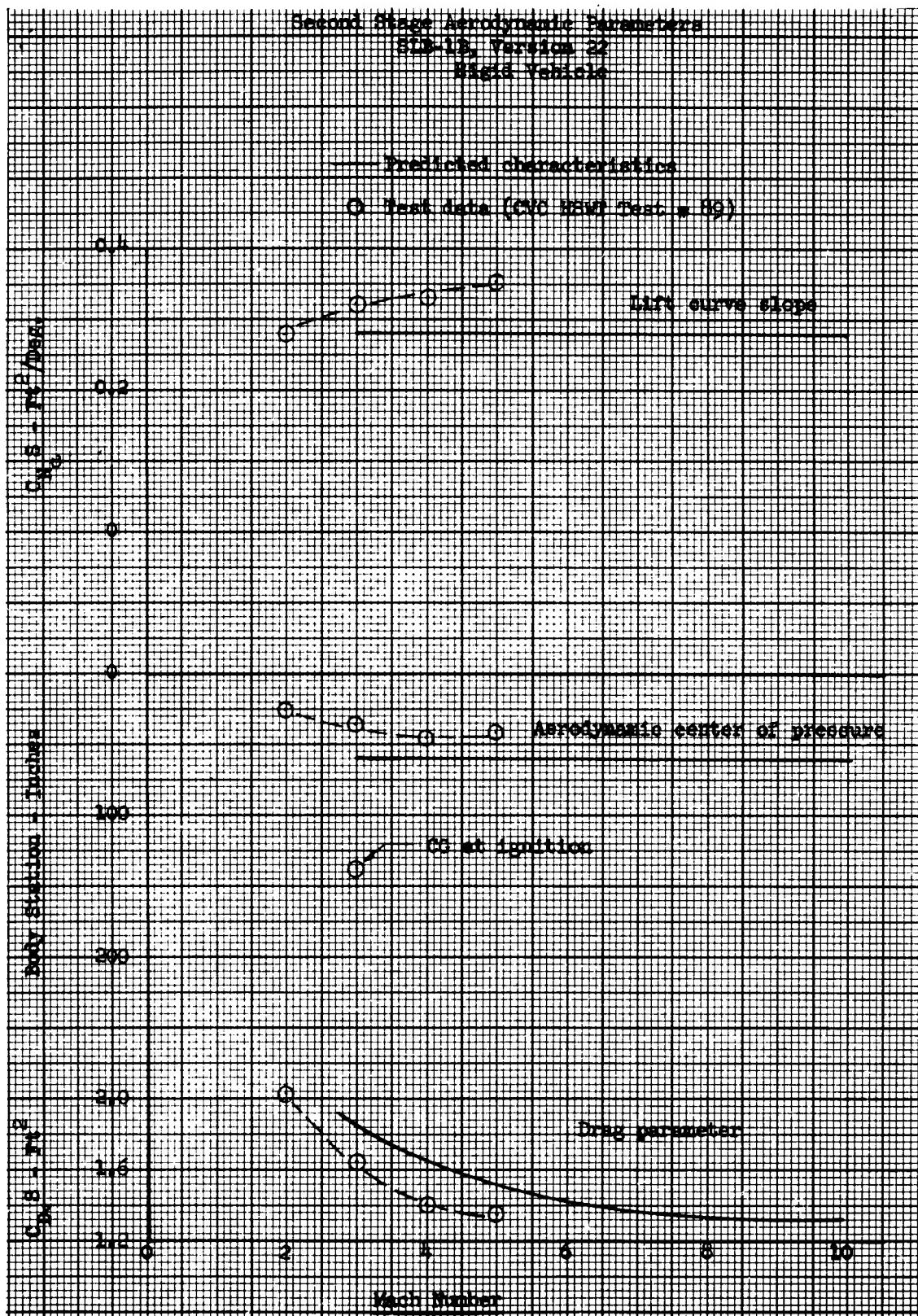


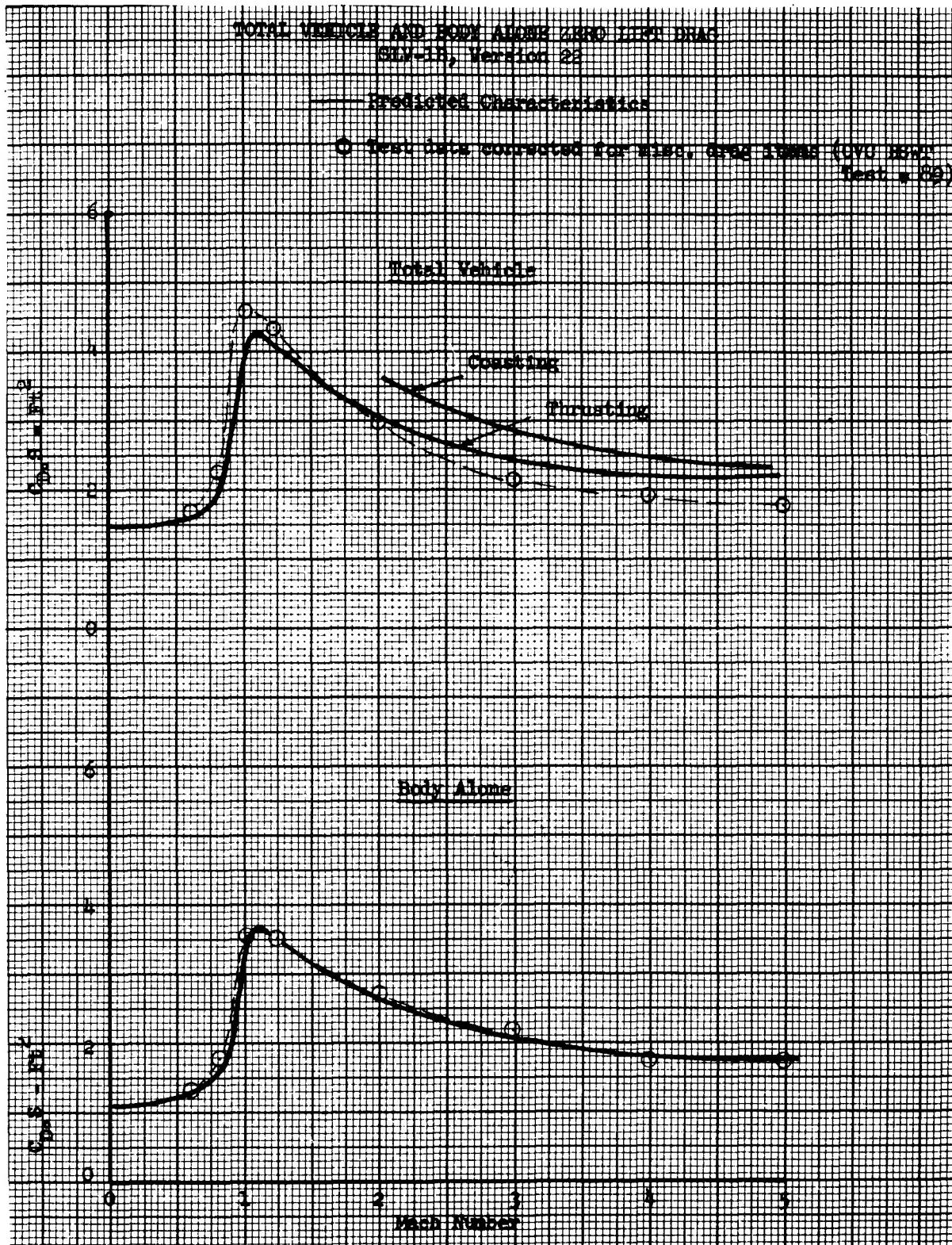


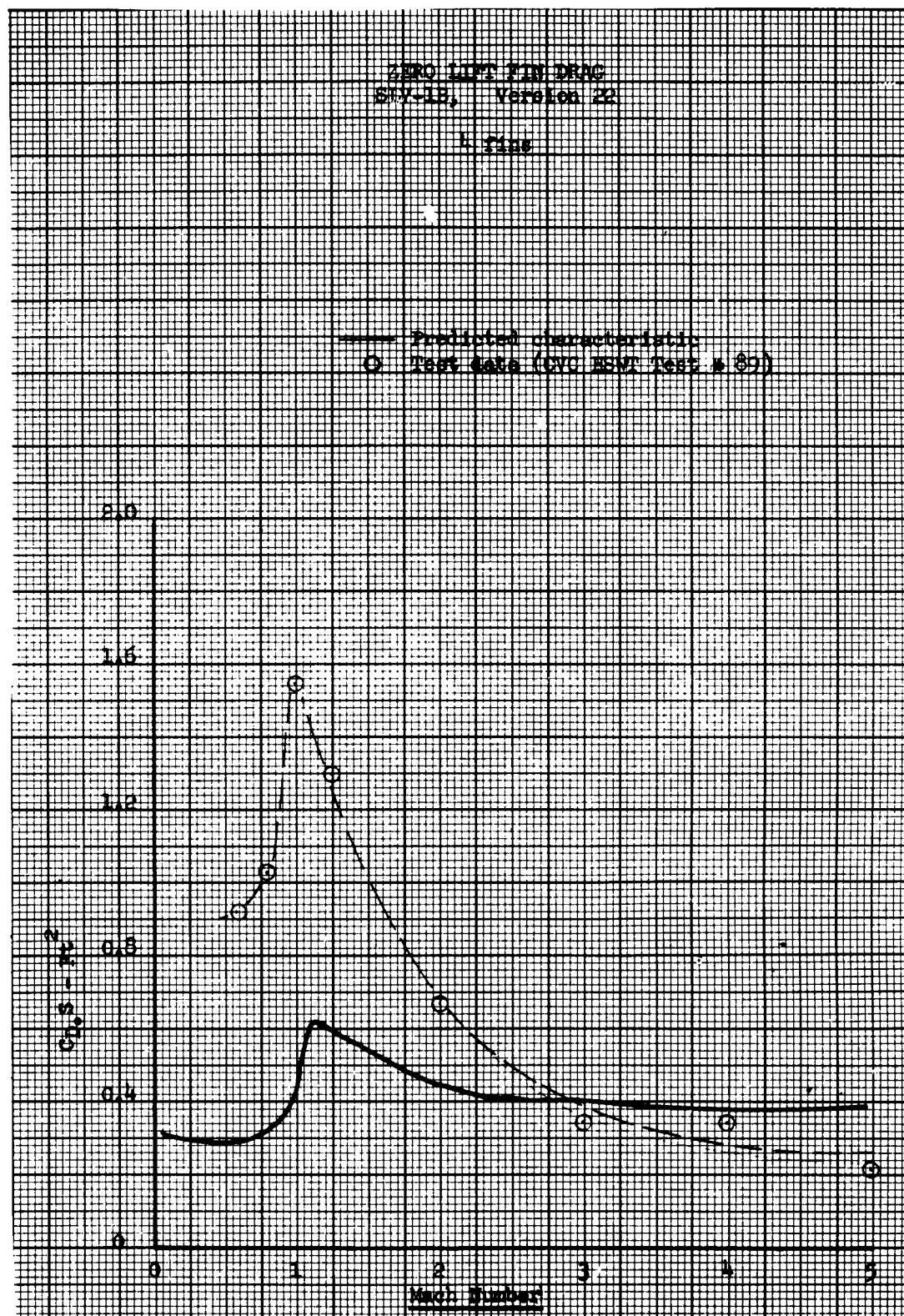












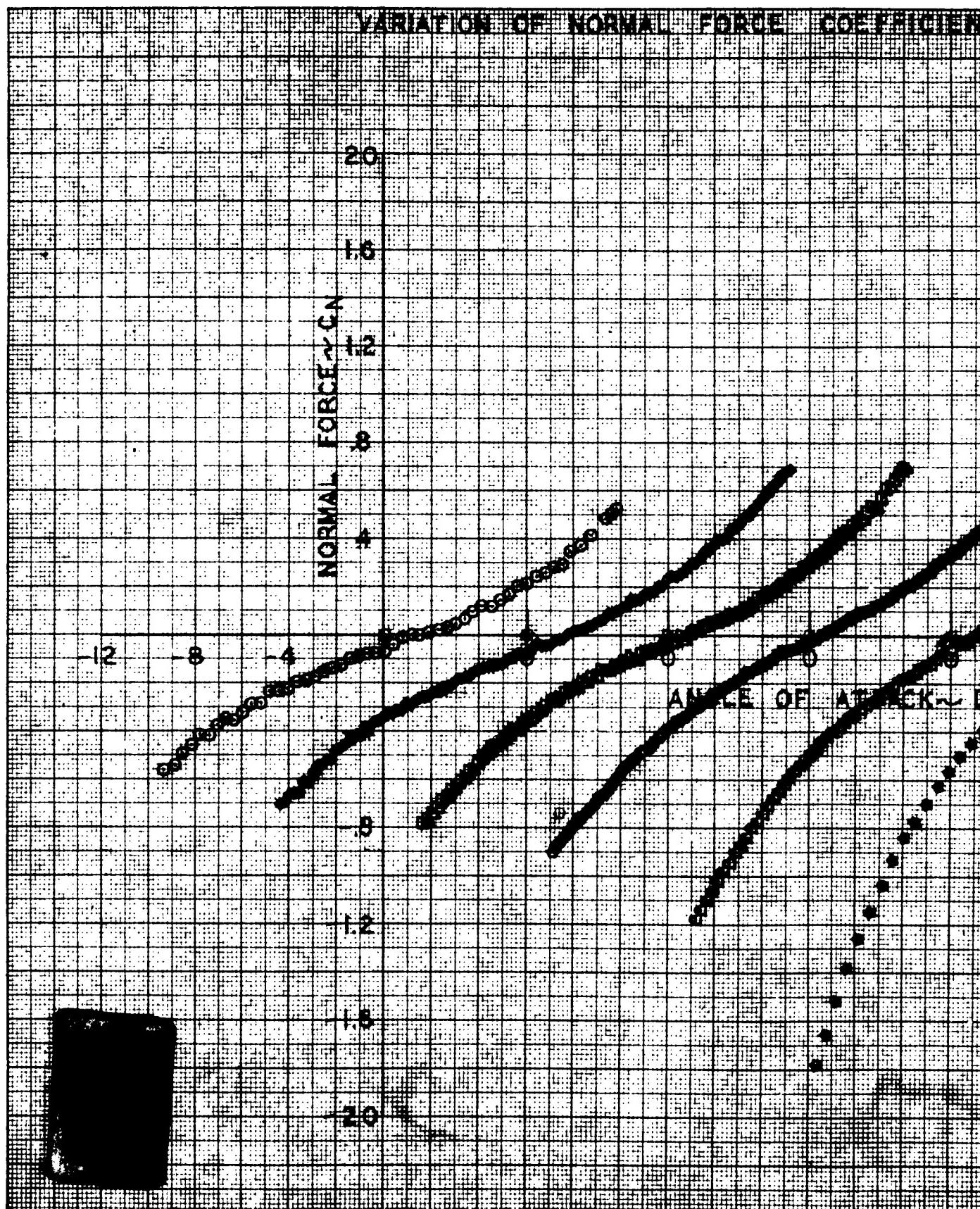
TDR-63-21

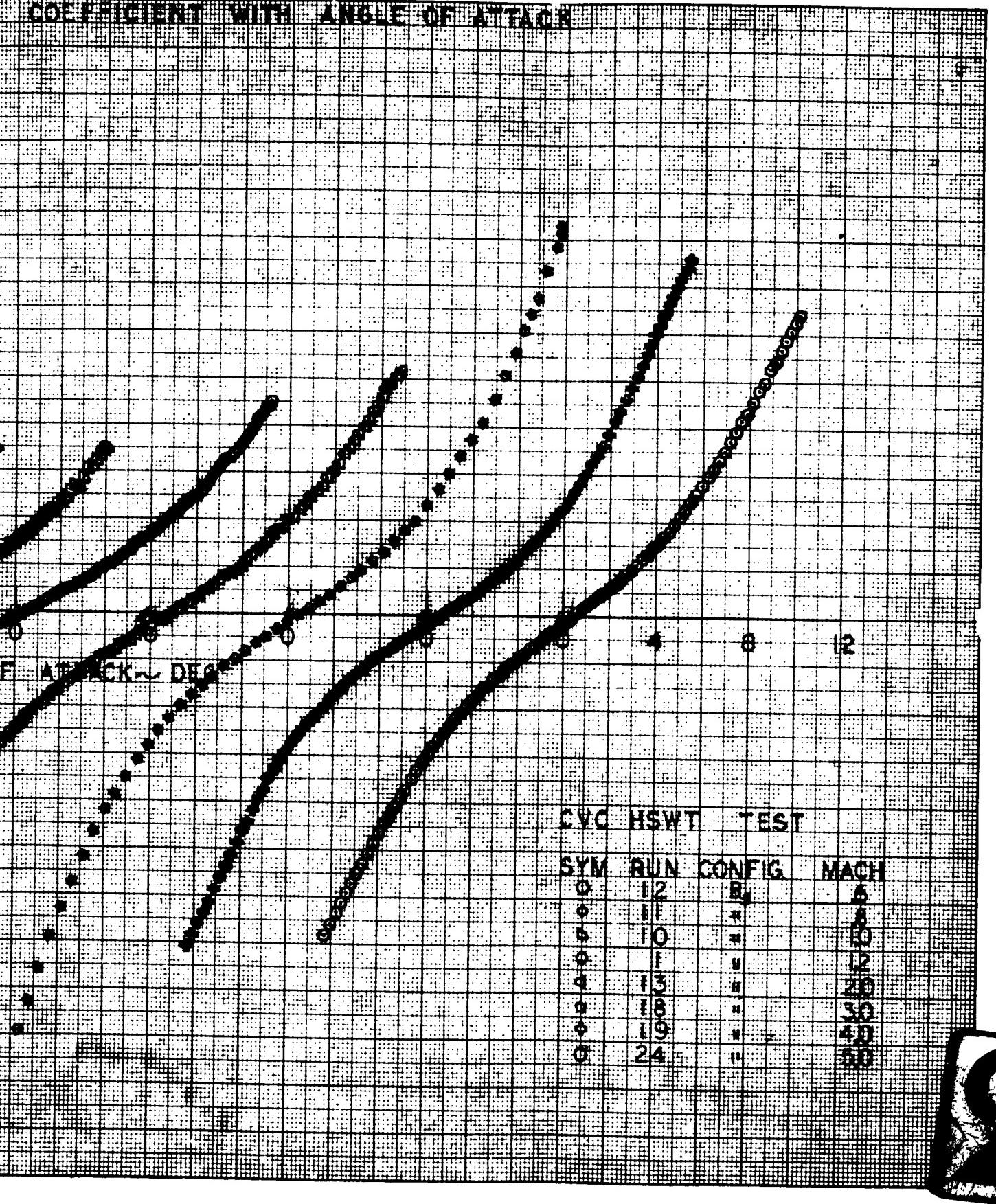
APPENDIX III

TEST RUNS - PLOTTED DATA

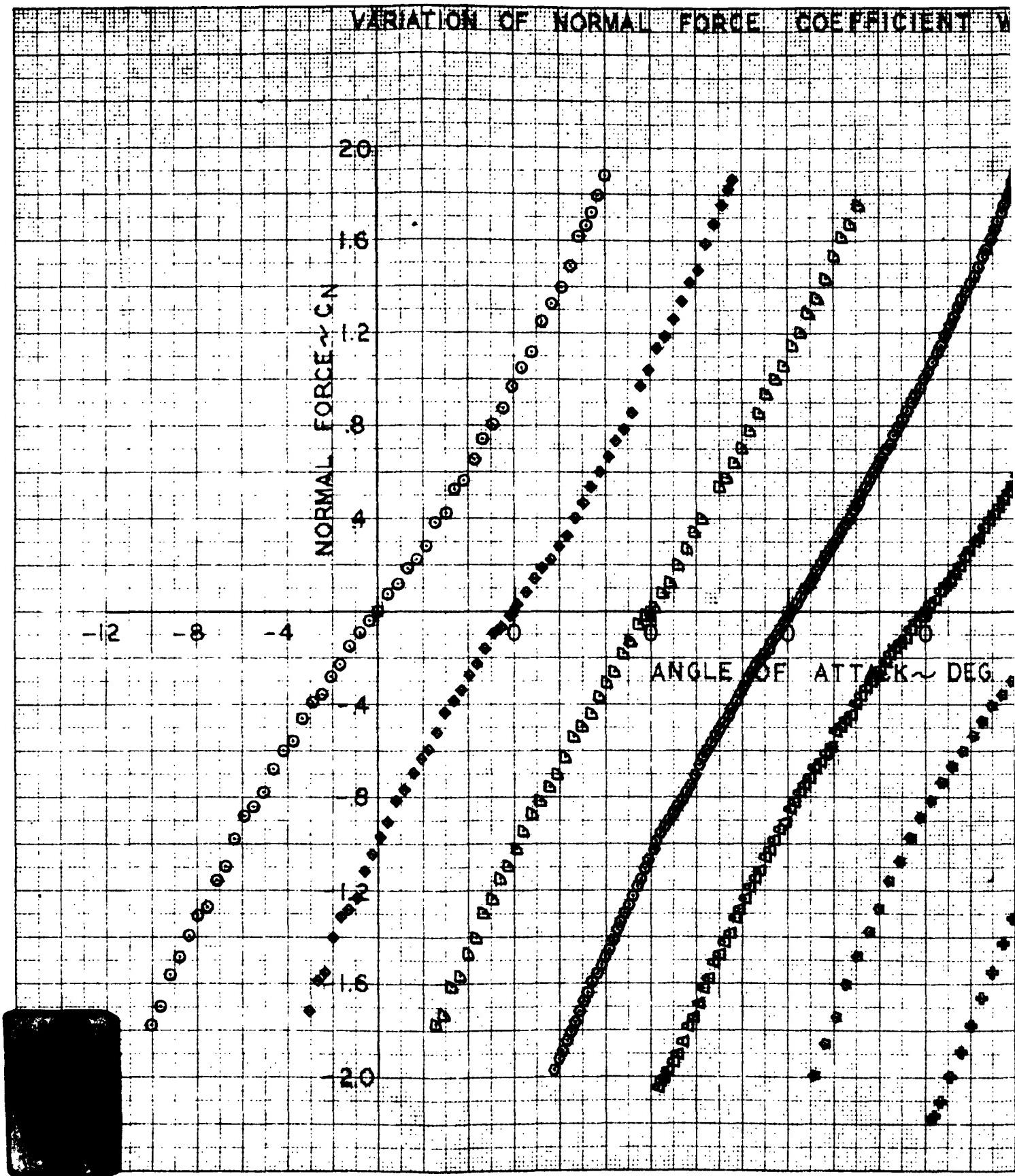
PLOTTED DATA INDEX

| Run No. | Conf. | M | Δ_F | Page Number | | | |
|---------|------------------|-----|------------|--------------|-------------|--------------|--------------|
| | | | | C_N/α | Cm/α | C_1/α | C_A/α |
| 12 | B ₃ | 0.6 | - | | | | |
| 11 | " | 0.8 | - | | | | |
| 10 | " | 1.0 | - | | | | |
| 1 | " | 1.2 | - | | | | |
| 13 | " | 2.0 | - | 35 | 39 | 43 | 47 |
| 18 | " | 3.0 | - | | | | |
| 19 | " | 4.0 | - | | | | |
| 24 | " | 5.0 | - | | | | |
| 29 | B _{3n2} | 0.6 | 0 | | | | |
| 8 | | 0.8 | " | | | | |
| 9 | | " | " | | | | |
| 2 | | 1.0 | " | | | | |
| 14 | | 1.2 | " | 36 | 40 | 44 | 48 |
| 17 | | 2.0 | " | | | | |
| 20 | | 3.0 | " | | | | |
| 23 | | 4.0 | " | | | | |
| 21 | | 5.0 | " | | | | |
| 6 | B _{3n2} | 0.6 | 3 | | | | |
| 5 | | 0.8 | " | | | | |
| 4 | | " | " | | | | |
| 3 | | 1.0 | " | | | | |
| 15 | | 1.2 | " | 37 | 41 | 45 | 49 |
| 16 | | 2.0 | " | | | | |
| 21 | | 3.0 | " | | | | |
| 22 | | 4.0 | " | | | | |
| 25 | | 5.0 | " | | | | |
| 28 | B ₄ | 2.0 | - | | | | |
| 27 | | 3.0 | - | 38 | 42 | 46 | 50 |
| 26 | | 4.0 | - | | | | |
| 25 | | 5.0 | - | | | | |

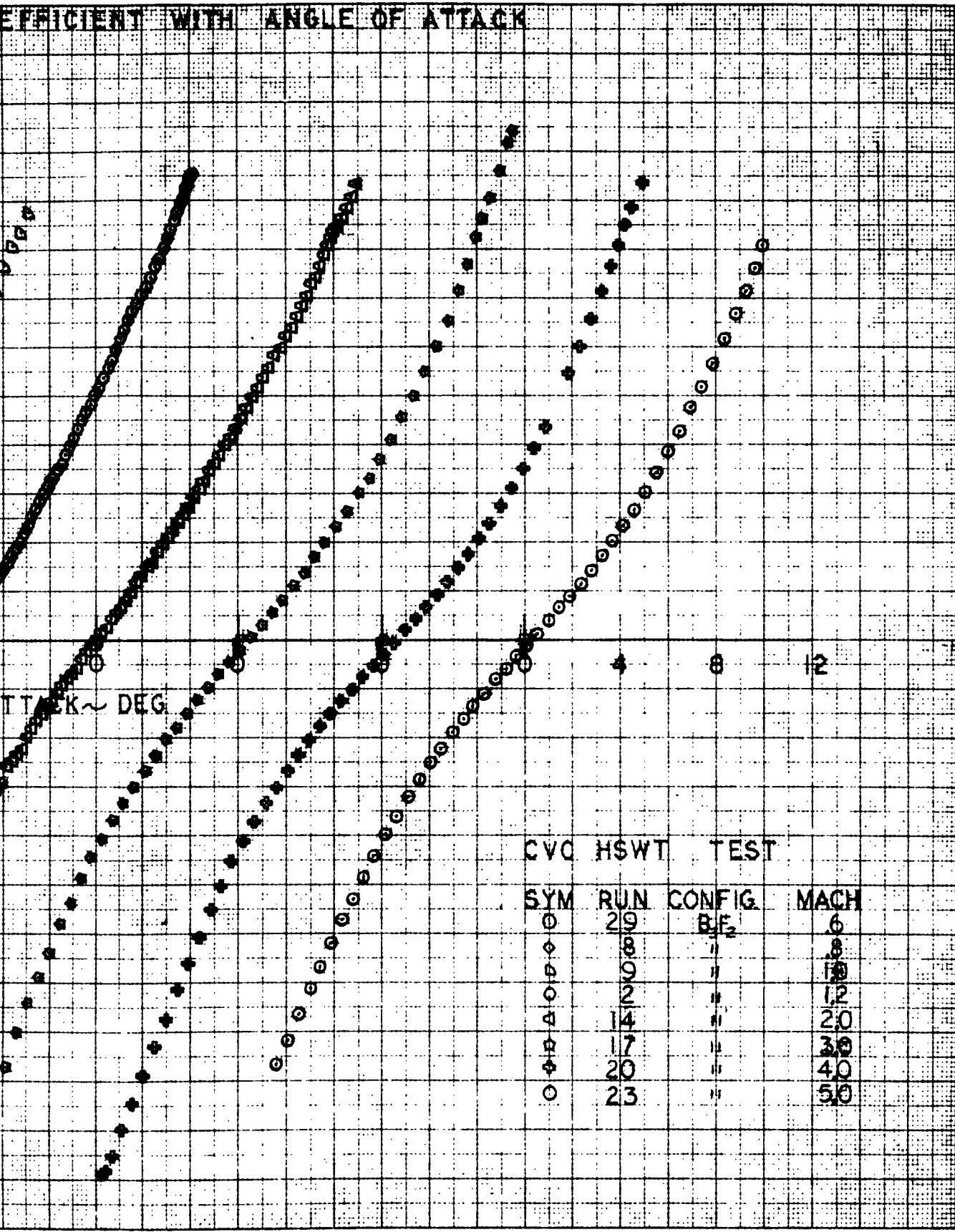


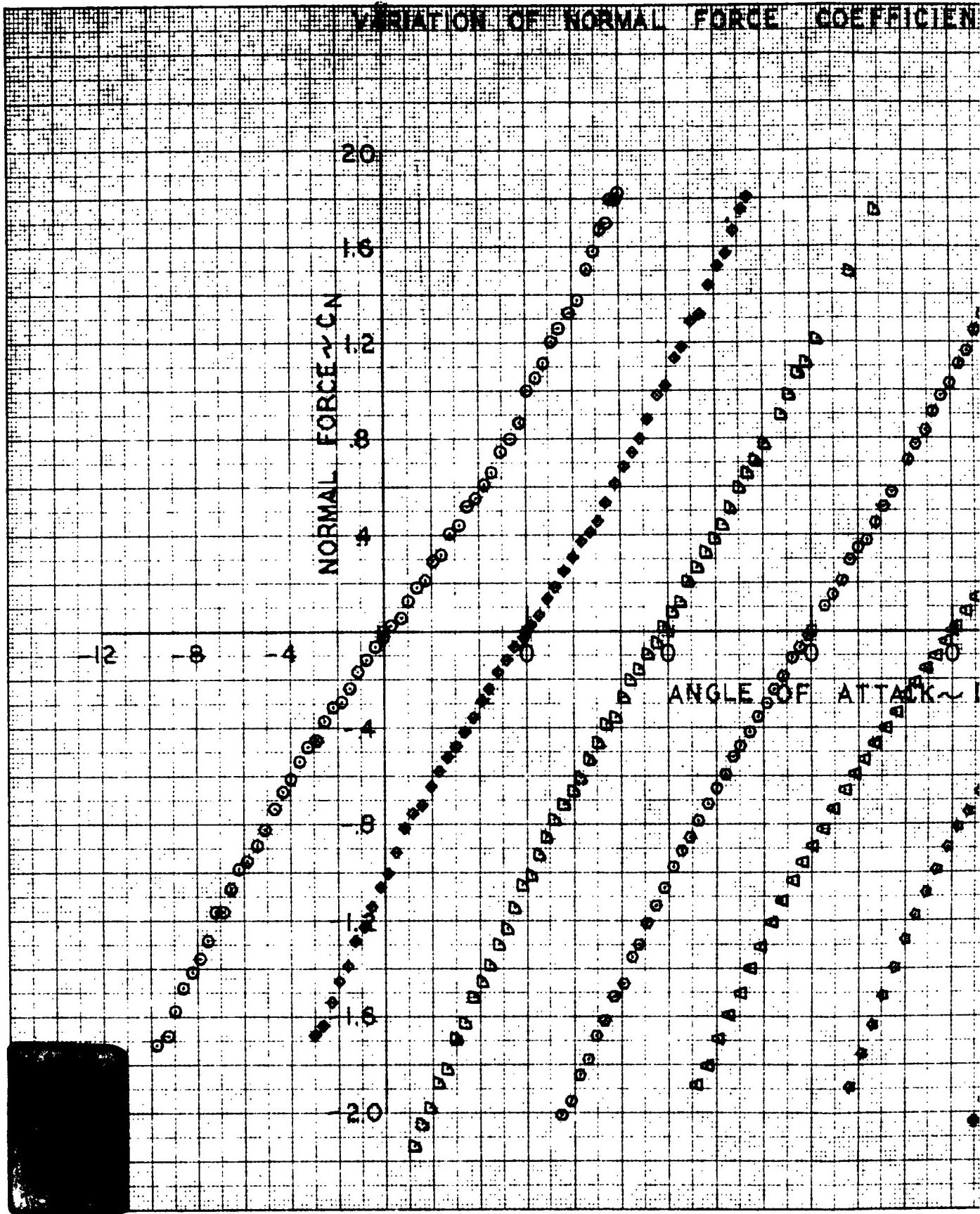


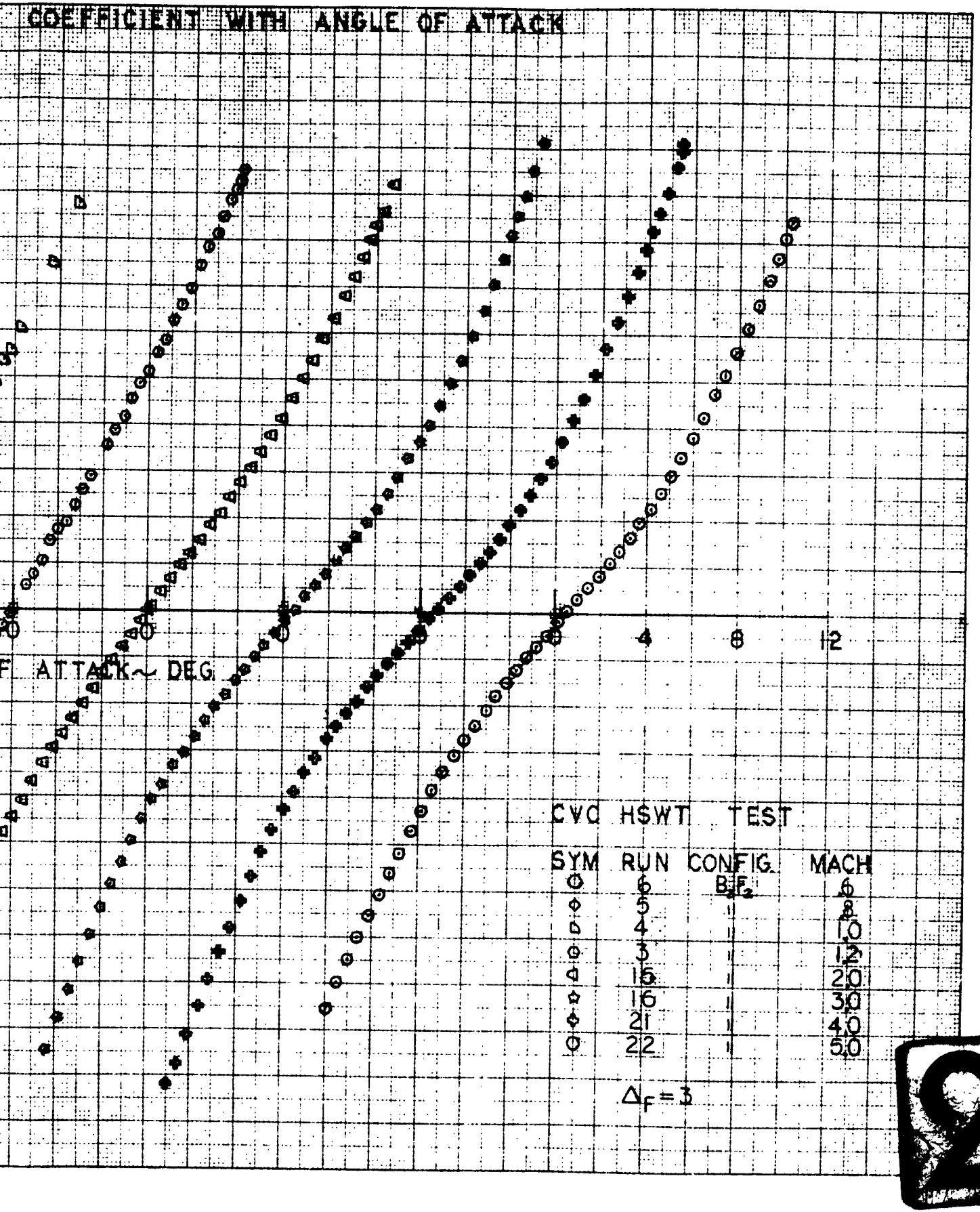
VARIATION OF NORMAL FORCE COEFFICIENT



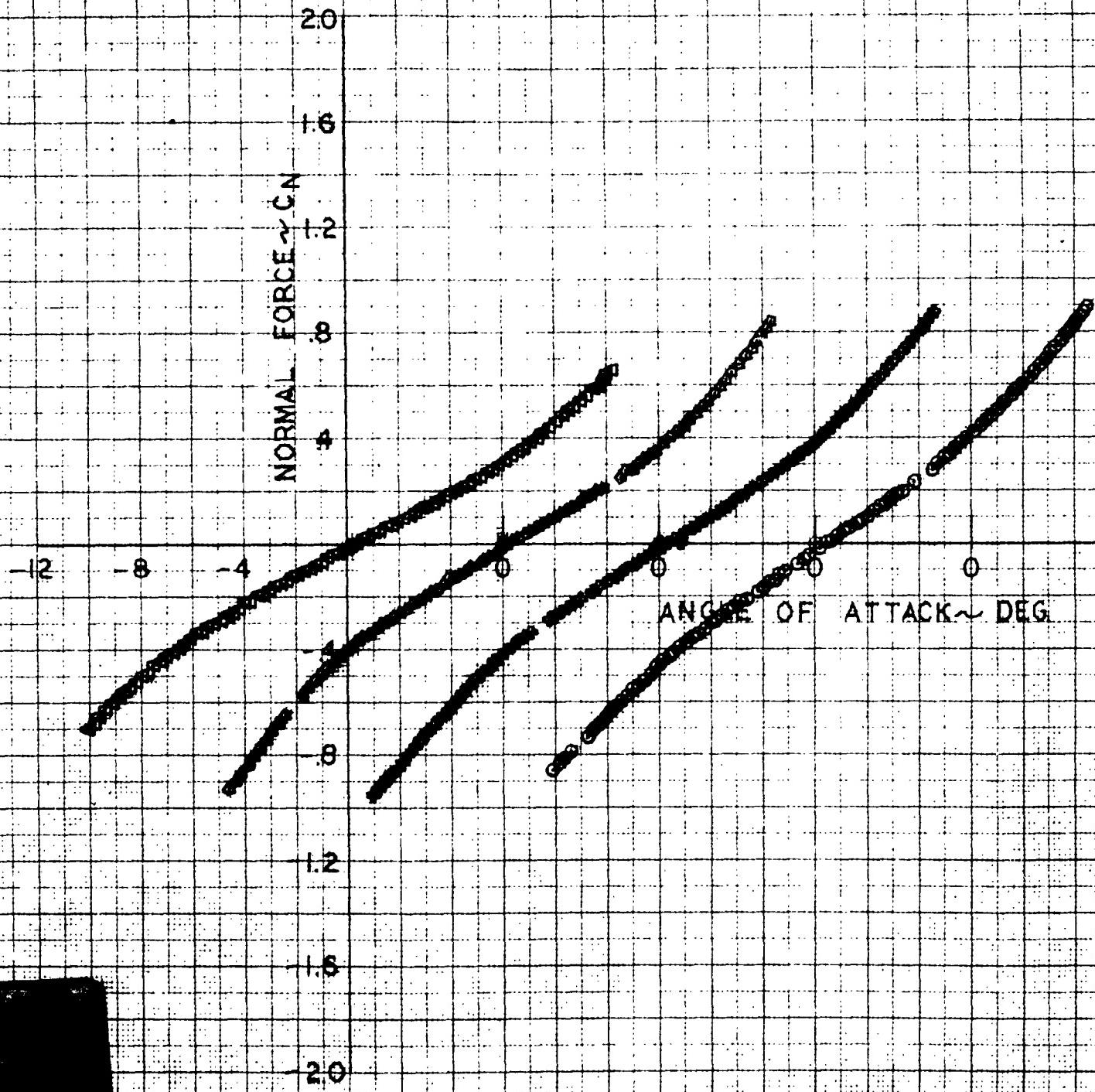
EFFICIENT WITH ANGLE OF ATTACK



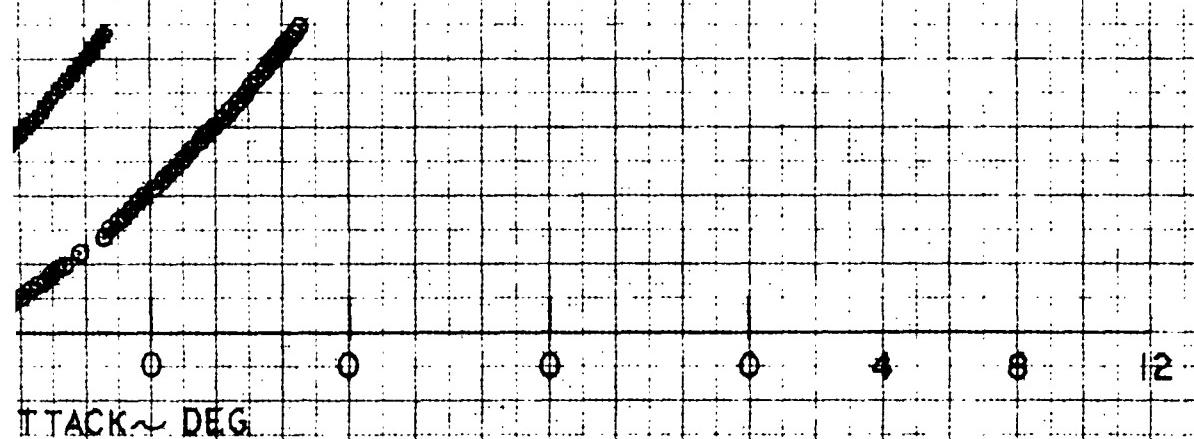




VARIATION OF NORMAL FORCE COEFFICIENT WITH



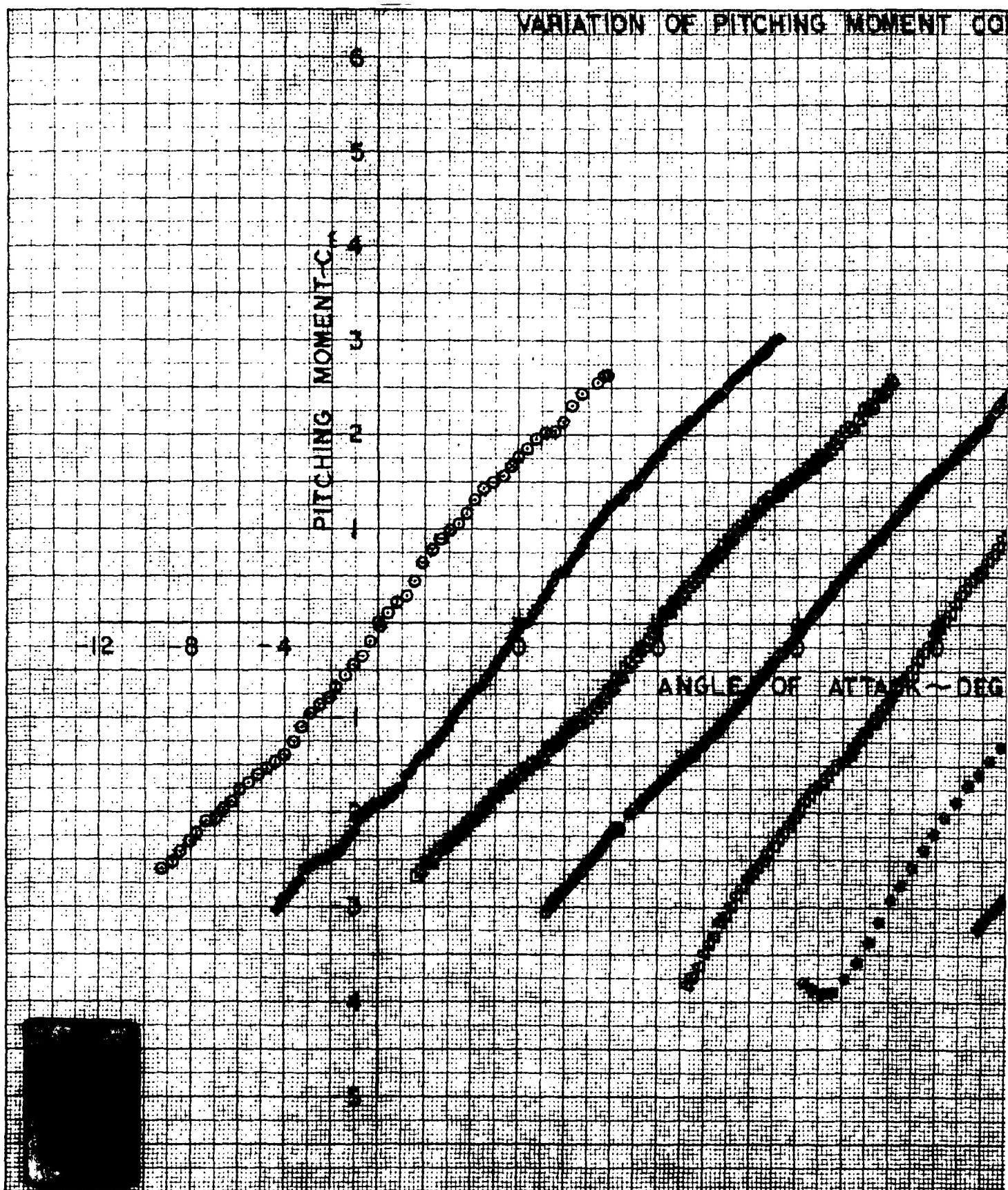
EFFICIENT WITH ANGLE OF ATTACK



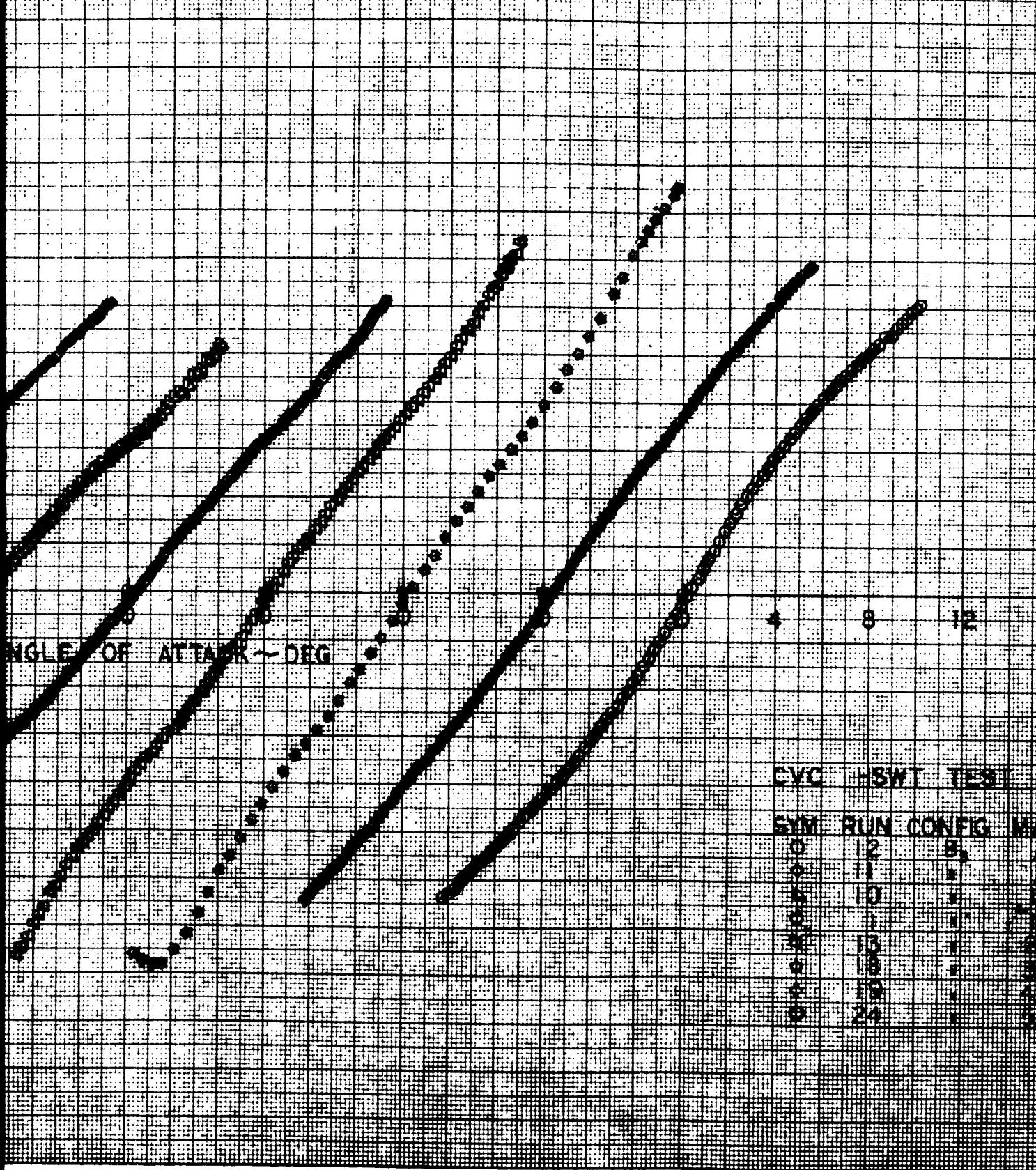
CVC HSWT TEST

| SYM | RUN | CONFIG | MACH |
|-----|-----|--------|------|
| 1 | 28 | B | 20 |
| 2 | 27 | * | 30 |
| 3 | 26 | * | 40 |
| 0 | 25 | * | 50 |





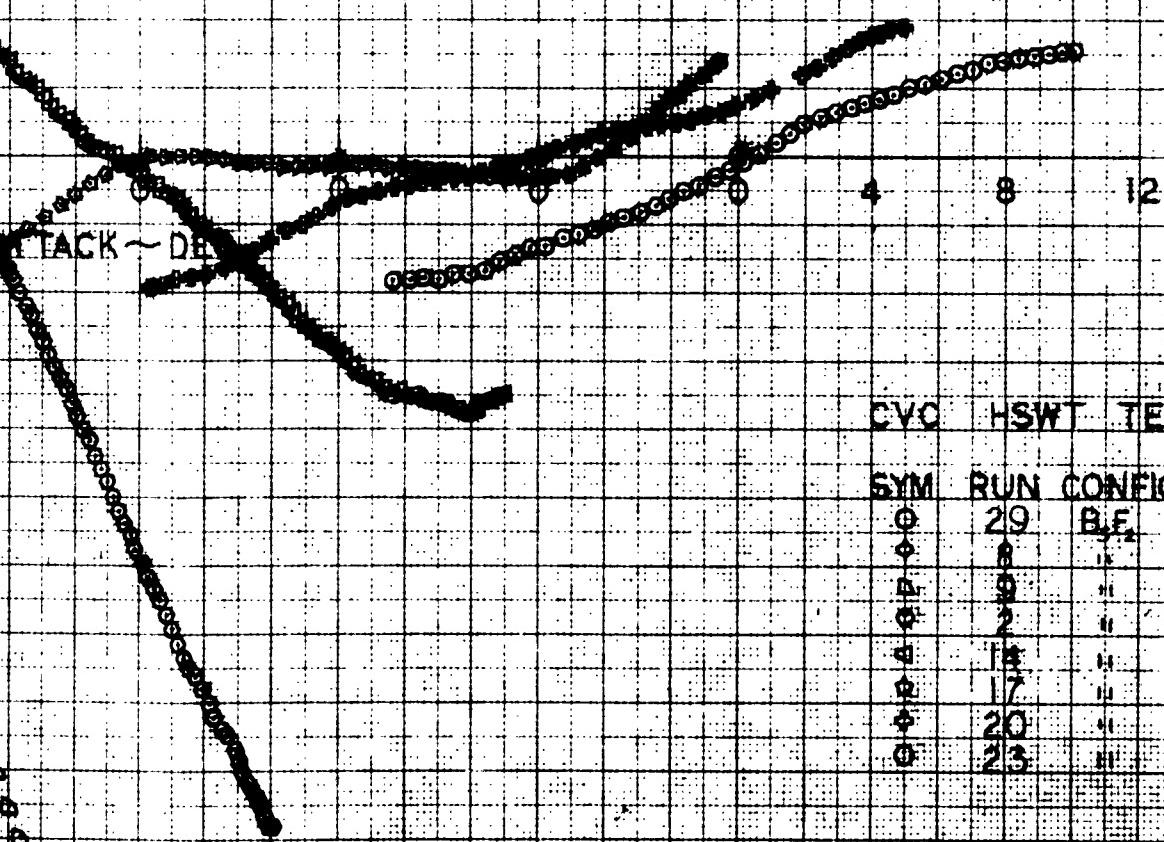
OF PITCHING MOMENT COEFFICIENT WITH ANGLE OF ATTACK



VARIATION OF PITCHING MOMENT COEFFICIENT



MOMENT COEFFICIENT WITH ANGLE OF ATTACK

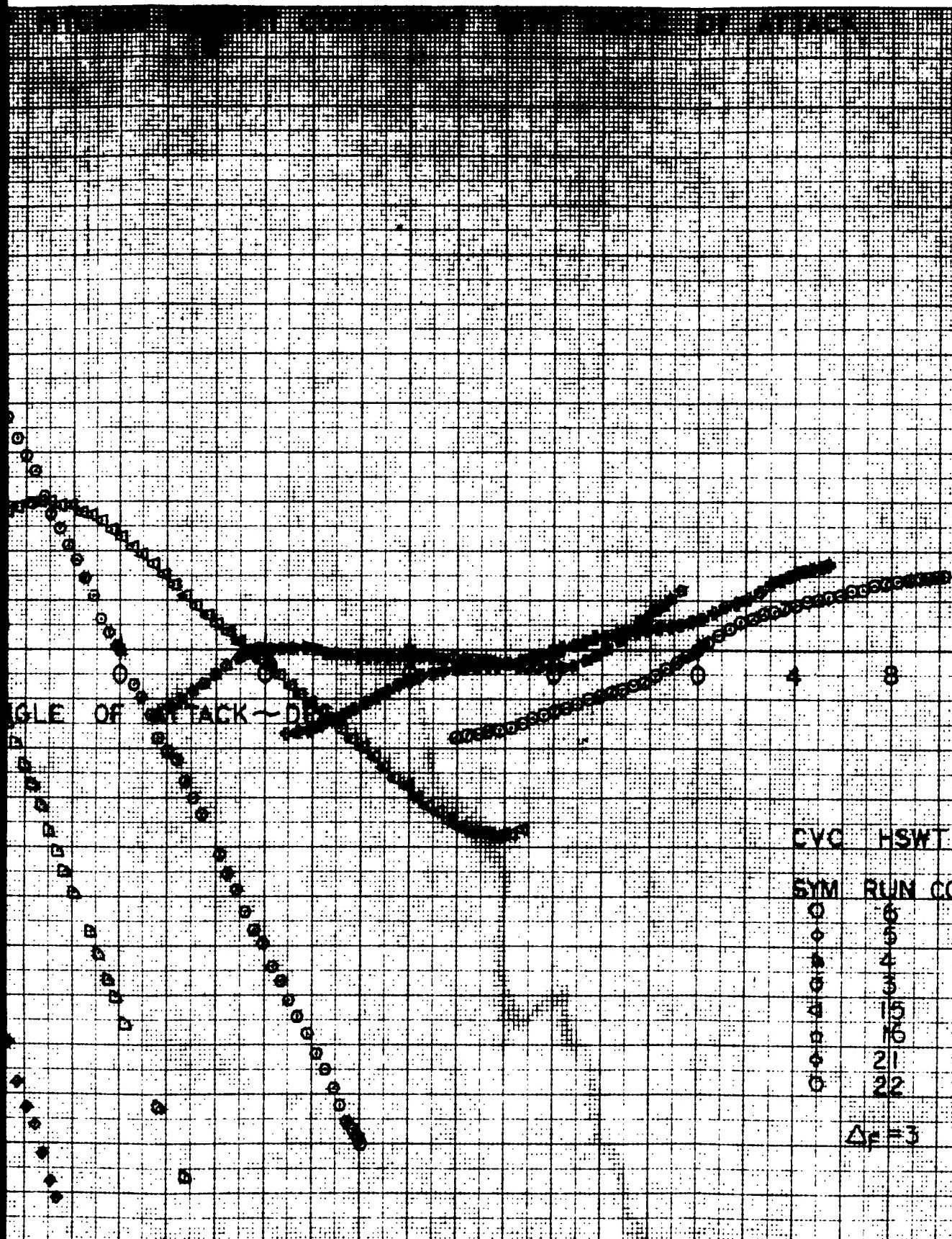


CVC HSWT TEST

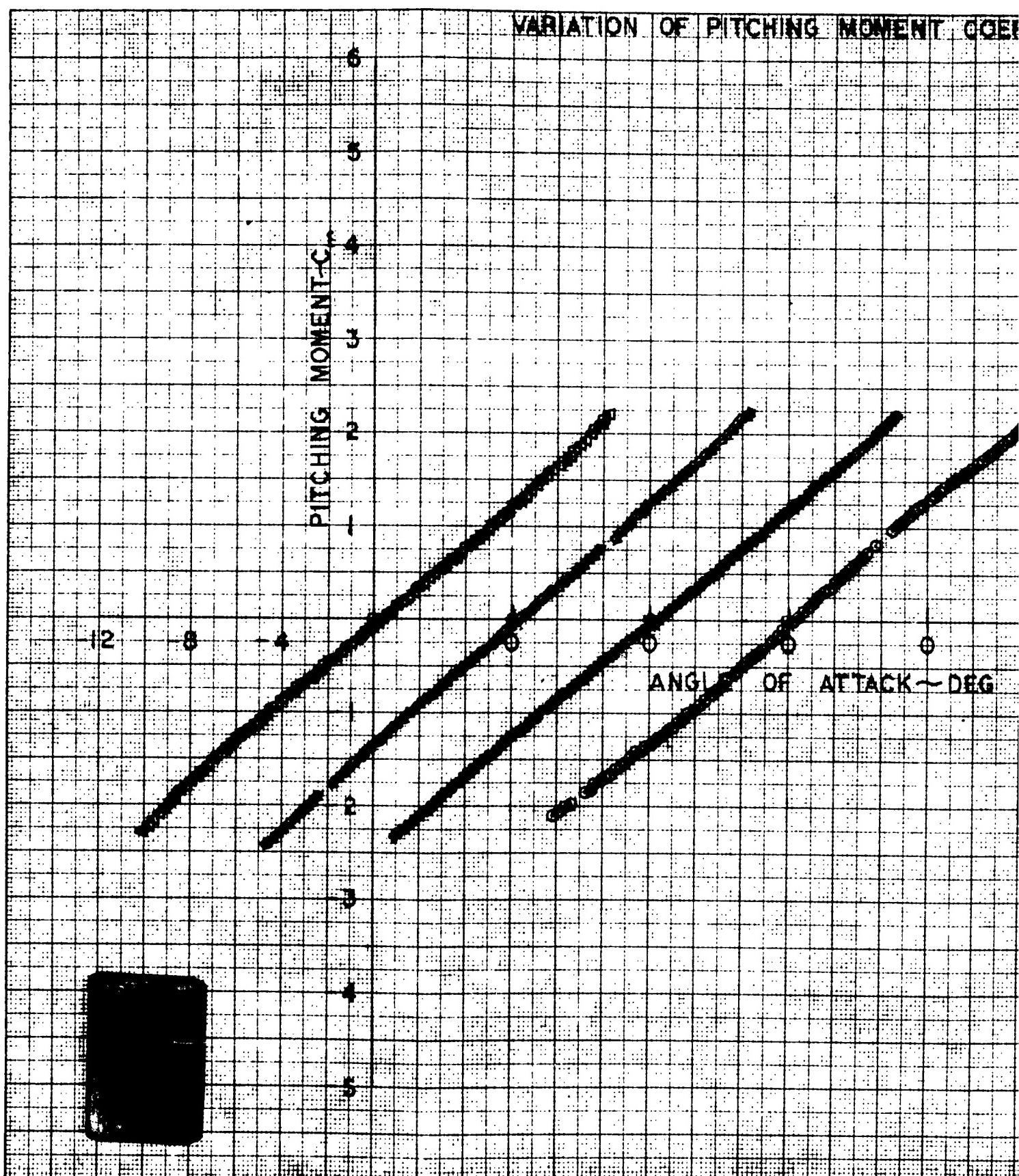
| SYM | RUN CONFIG. | MACH |
|-----|-------------|------|
| ○ | 29 | 5 |
| ◊ | 8 | 8 |
| ■ | 9 | 10 |
| □ | 2 | 12 |
| △ | 13 | 20 |
| ▲ | 17 | 30 |
| ◆ | 20 | 40 |
| ○ | 23 | 50 |



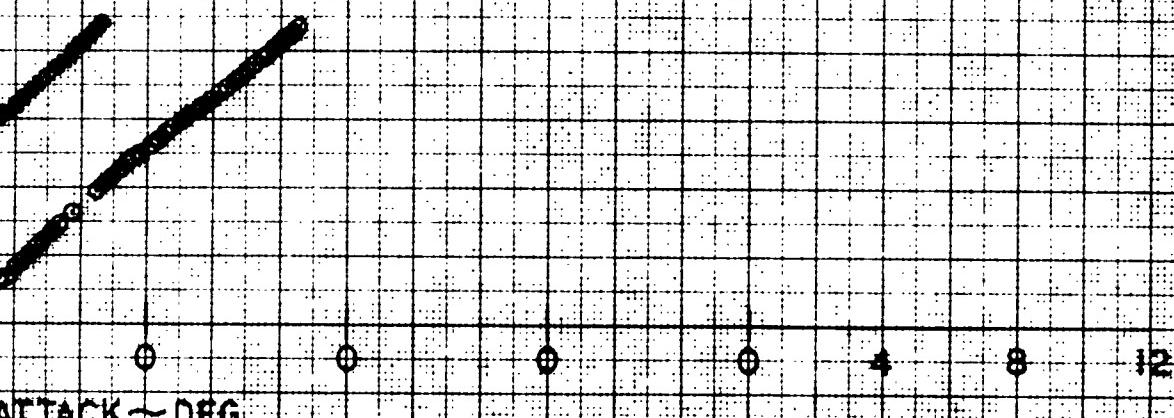




VARIATION OF PITCHING MOMENT COEF.

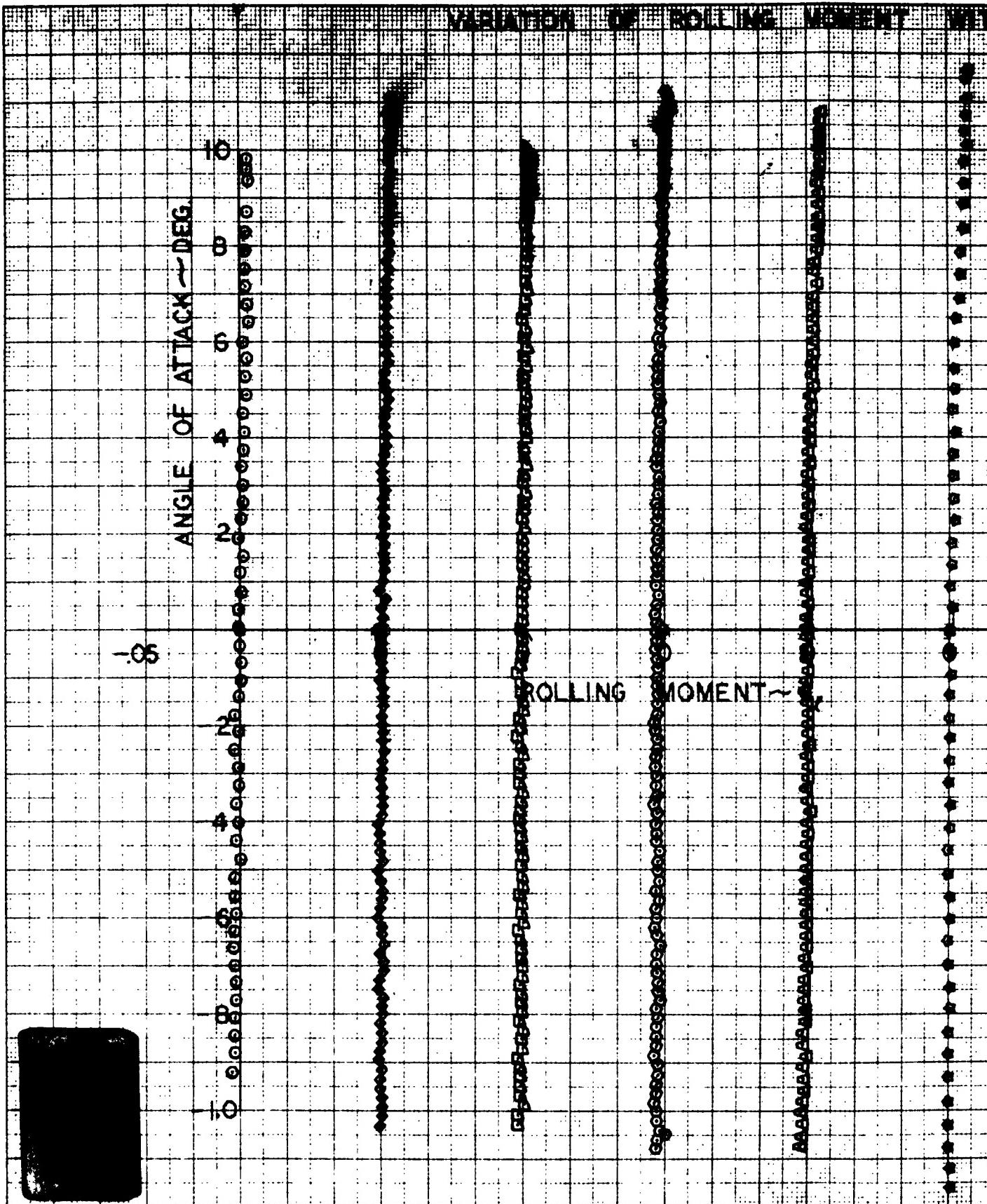


MOMENT COEFFICIENT WITH ANGLE OF ATTACK



CVC HSWT TEST

| SYM | RUN | CONFIG | WING |
|-----|-----|----------------|------|
| * | 28 | B ₄ | 20 |
| * | 27 | 11 | 20 |
| * | 26 | 14 | 20 |
| o | 25 | 13 | 20 |



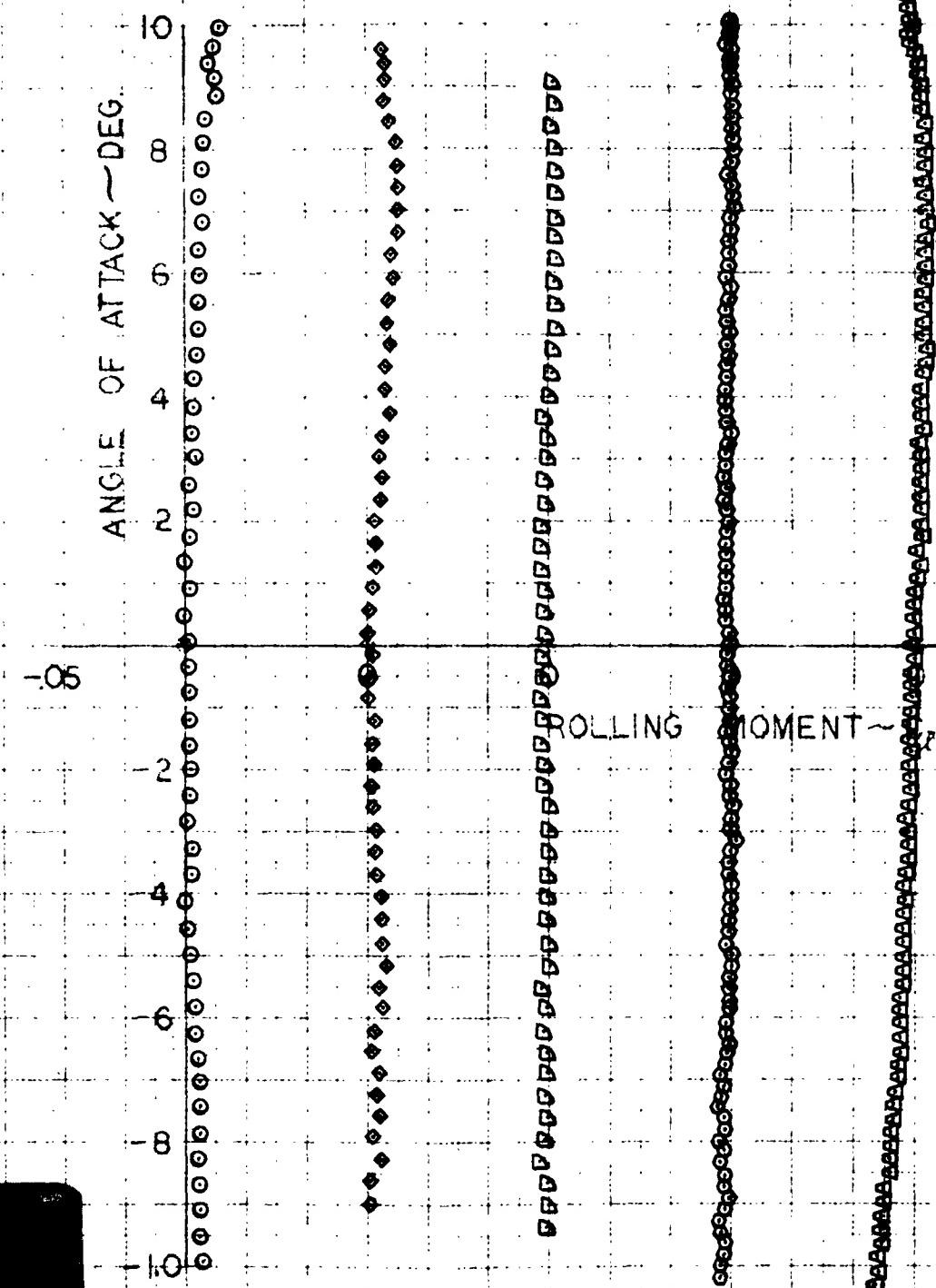
.05 .10 .15 .20 .25

CVC HSWT TEST

| SYM | RUN | CONFIG. | MACH |
|-----|-----|----------------|------|
| ○ | 12 | B ₃ | 6 |
| ◊ | 11 | | 8 |
| ○ | 10 | | 10 |
| ○ | 9 | | 12 |
| ○ | 13 | | 20 |
| △ | 18 | | 30 |
| ◊ | 19 | | 40 |
| ○ | 24 | | 50 |



VARIATION OF ROLLING MOMENT WITH AN



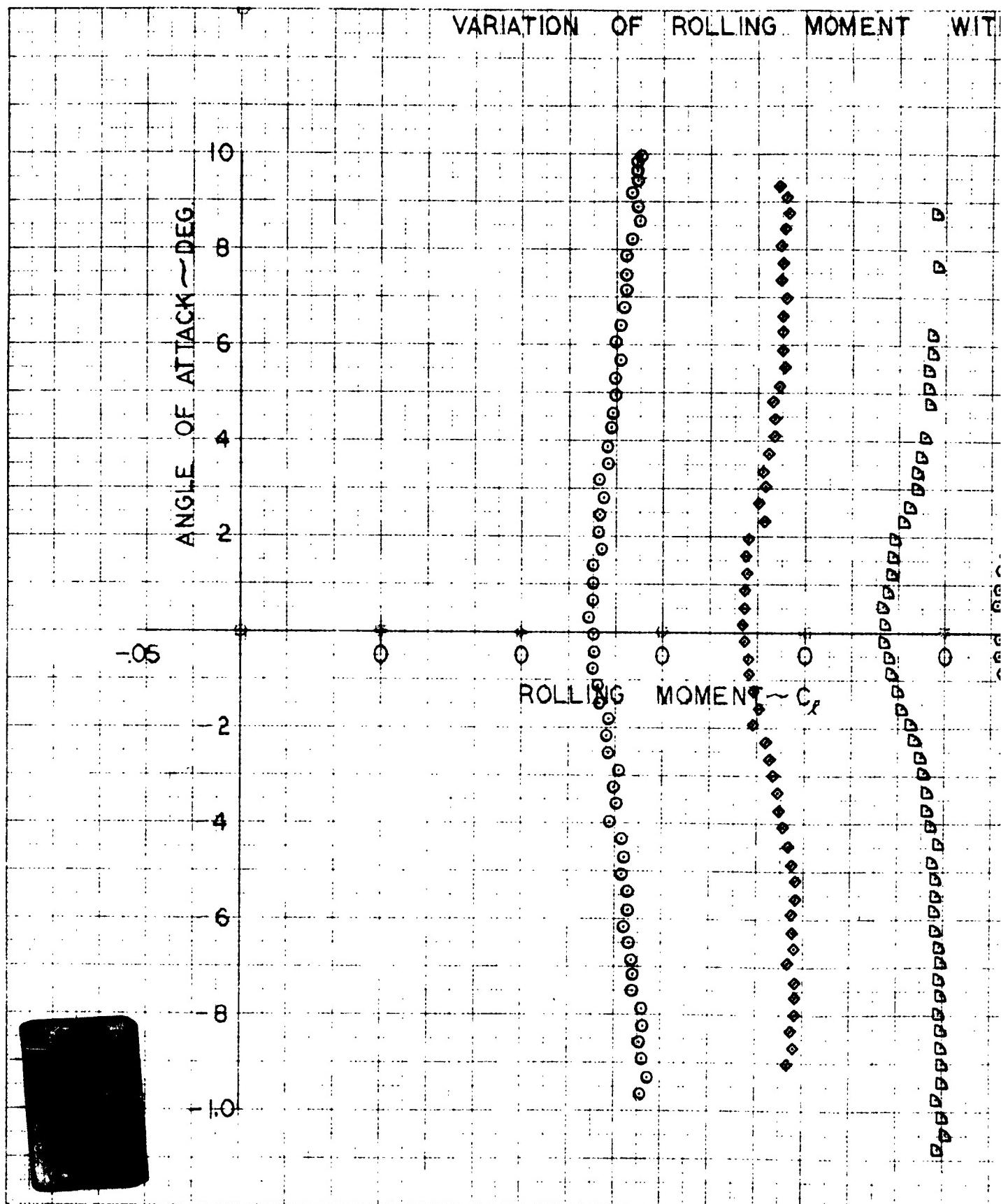
MENT WITH ANGLE OF ATTACK

.05 .10 .15 .20 .25

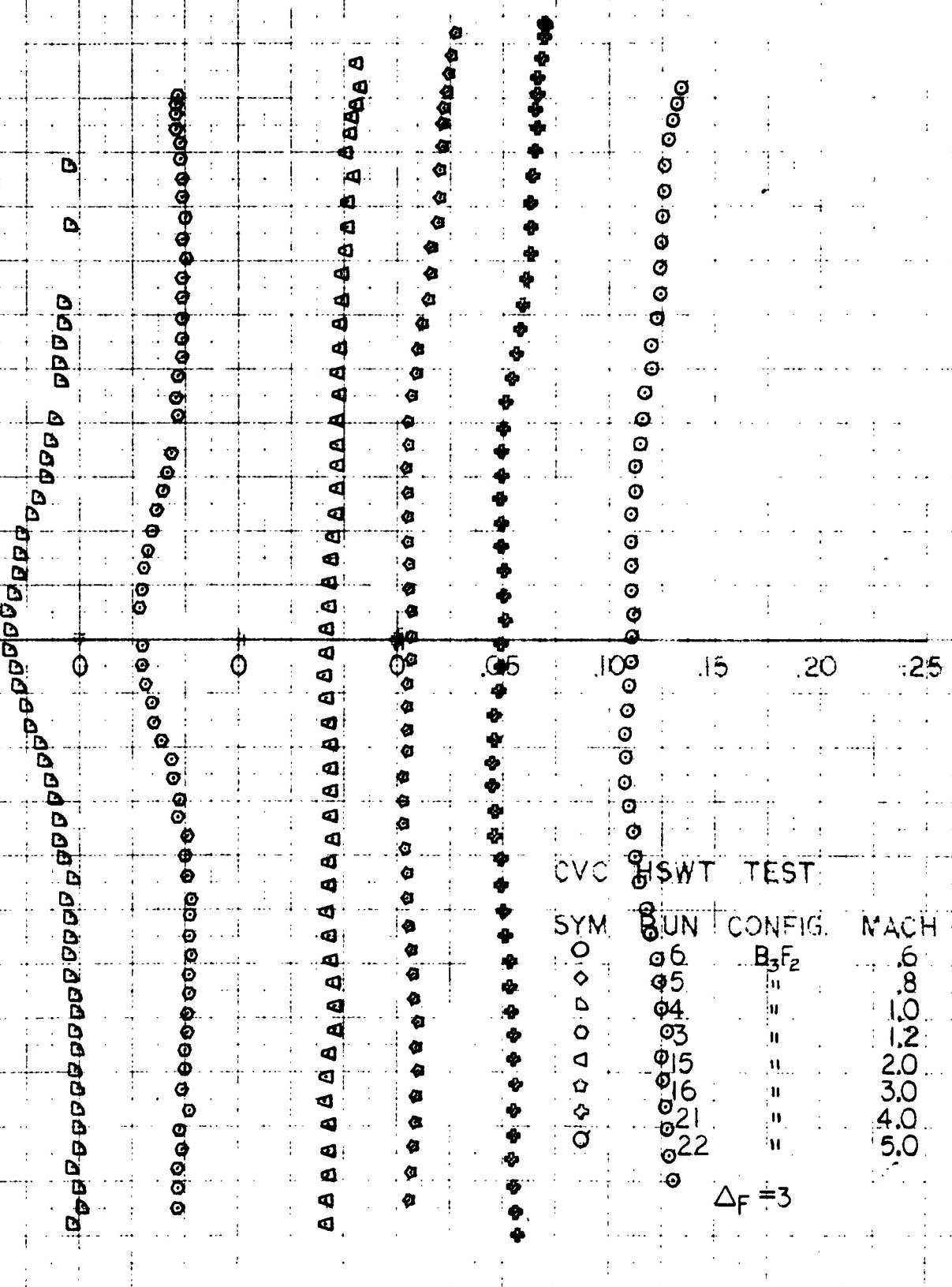
CVC HSWT TEST

| SYM | RUN | CONFIG. | MACH |
|-----|-----|-------------------------------|------|
| ○ | 29 | B ₃ F ₂ | .6 |
| ◊ | 8 | " | .8 |
| □ | 9 | " | 1.0 |
| ○ | 2 | " | 1.2 |
| △ | 14 | " | 2.0 |
| ◇ | 17 | " | 3.0 |
| ◊ | 20 | " | 4.0 |
| ○ | 23 | " | 5.0 |





MOMENT WITH ANGLE OF ATTACK



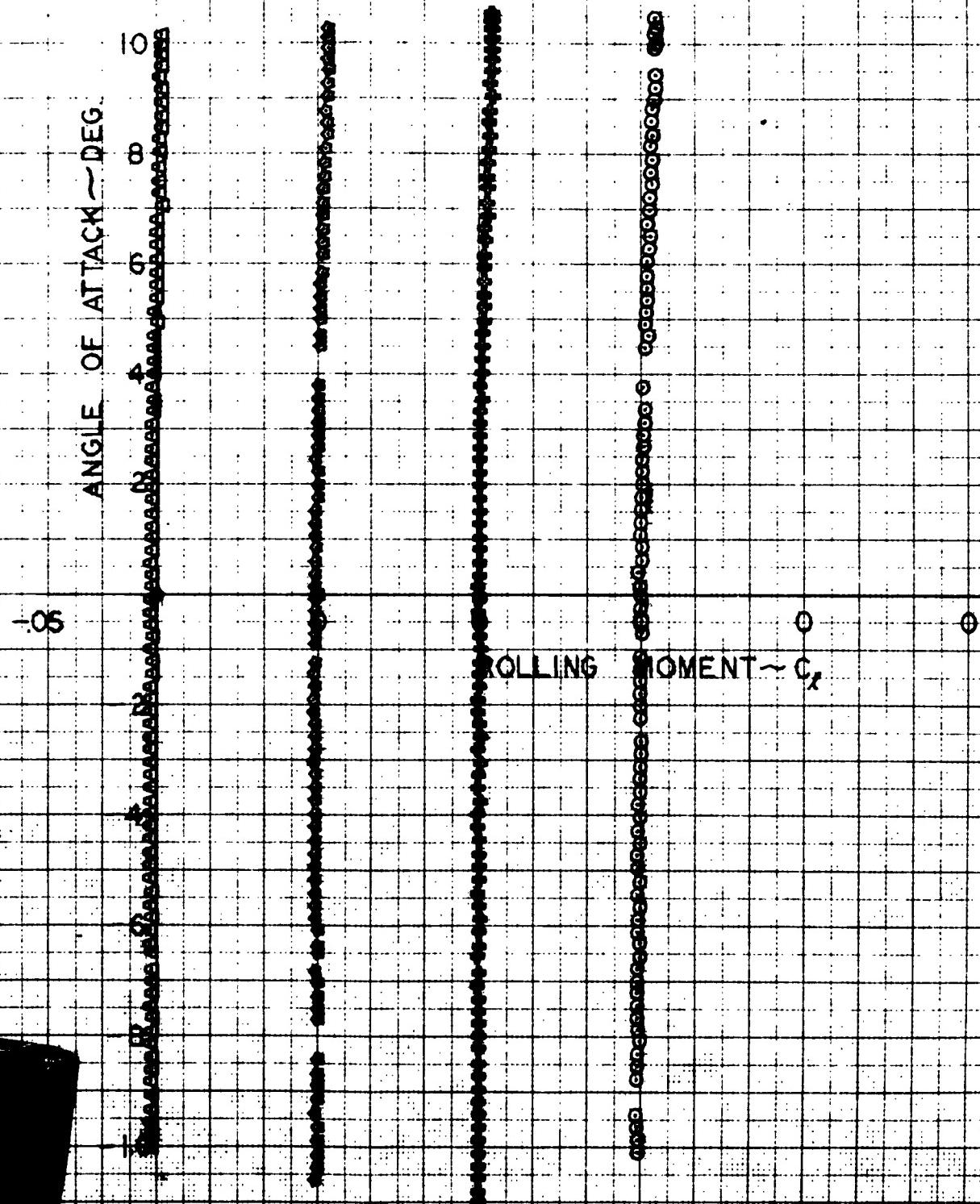
CVC HSWT TEST

| SYM | BUN | CONFIG. | MACH |
|-----|-----|---------|------|
| ○ | ○ | ○ | 0.6 |
| ○ | ○ | ○ | 0.8 |
| ○ | ○ | ○ | 1.0 |
| ○ | ○ | ○ | 1.2 |
| ○ | ○ | ○ | 2.0 |
| ○ | ○ | ○ | 3.0 |
| ○ | ○ | ○ | 4.0 |
| ○ | ○ | ○ | 5.0 |

B_3F_2



VARIATION OF ROLLING MOMENT WITH ANGLE OF ATTACK



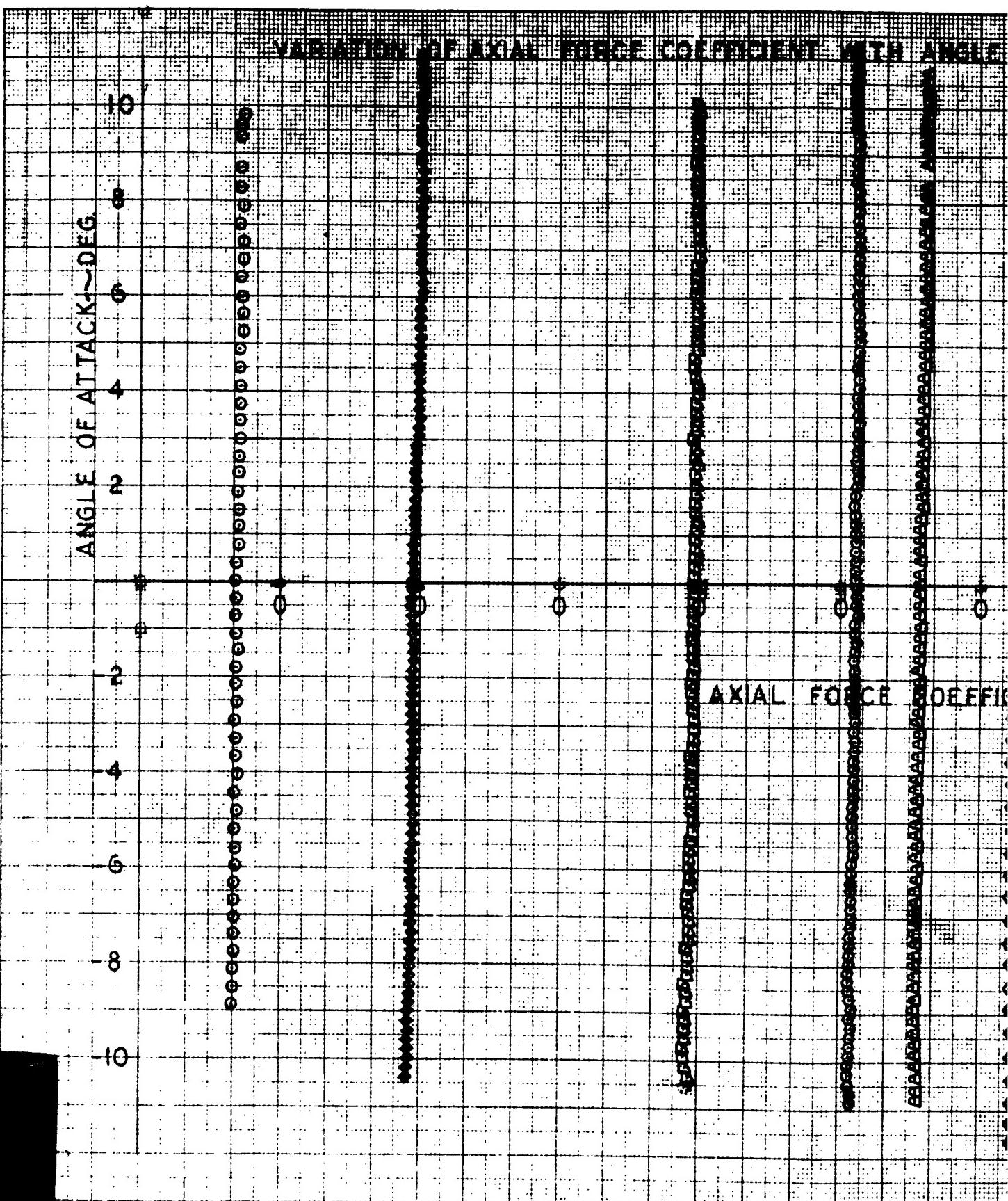
MENT WITH ANGLE OF ATTACK

0 0 0 .05 .10 .15 .20 .25

CVC HSWT TEST

| SYM | RUN | CONFIG. | MACH |
|-----|-----|---------|------|
| ♦ | 28 | B4 | 20 |
| ☆ | 27 | " | 30 |
| ◊ | 26 | " | 40 |
| ○ | 25 | " | 50 |





CL COEFFICIENT ~ SA

.2 .4 .6 .8 1.0

CVC HSWT TEST
SYM RUN CONFIG MACH

| | |
|----|-----|
| 12 | 6 |
| 11 | 8 |
| 10 | 10 |
| 9 | 12 |
| 8 | 20 |
| 7 | 30 |
| 6 | 4.0 |
| 5 | 5.0 |

B₃



VARIATION OF AXIAL FORCE COEFFICIENT WITH ANGLE OF

ANGLE OF ATTACK - DEG

10

8

6

4

2

0

-2

-4

-6

-8

-10

0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100

AXIAL FORCE COEFFICIENT

0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100

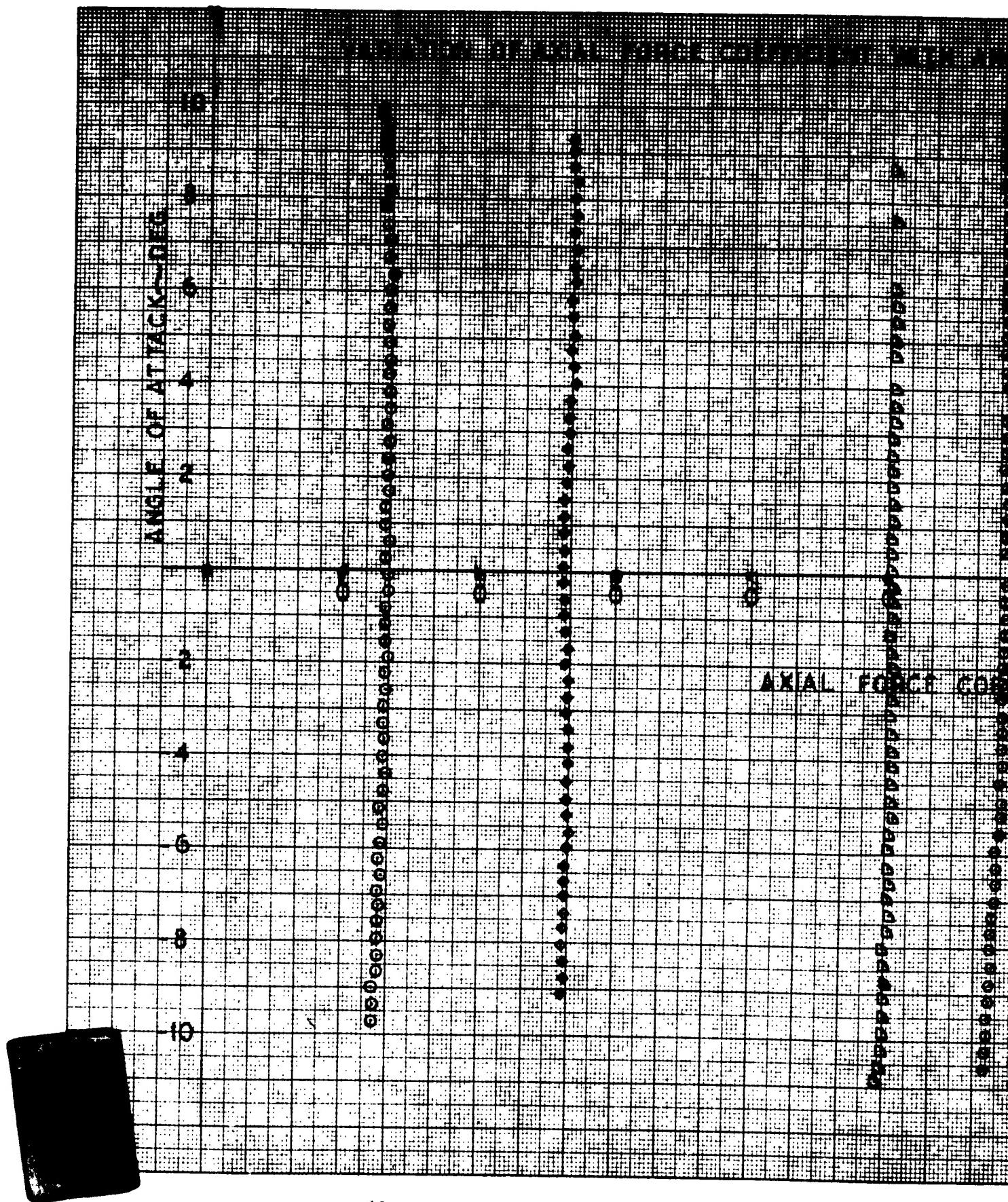
COEFFICIENT WITH ANGLES OF ATTACK

AERODYNAMIC FORCE COEFFICIENT - C_A

1.2 1.4 1.6 1.8 2.0

CVC ISW TEST

| SYM RUN | CONFIG | MACH |
|---------|--------|------|
| 0 | 20 | 0.8 |
| 0 | 20 | 1.0 |
| 0 | 20 | 1.2 |
| 0 | 20 | 1.4 |
| 0 | 20 | 1.6 |
| 0 | 20 | 1.8 |
| 0 | 20 | 2.0 |
| 0 | 20 | 2.2 |
| 0 | 20 | 2.4 |
| 0 | 20 | 2.6 |
| 0 | 20 | 2.8 |
| 0 | 20 | 3.0 |
| 0 | 20 | 3.2 |
| 0 | 20 | 3.4 |
| 0 | 20 | 3.6 |
| 0 | 20 | 3.8 |
| 0 | 20 | 4.0 |



AXIAL FORMATION OF
POLY(1,3-PHENYLENE SULFONE)

| CVC ESWT TEST | | | | | |
|---------------|-----|-------------------------------|------|--|--|
| SYM | RUN | CONFIG | MACH | | |
| Φ | 6 | B ₂ F ₂ | 6 | | |
| Φ | 7 | II | 8 | | |
| Φ | 8 | II | 10 | | |
| Φ | 9 | II | 12 | | |
| Φ | 10 | II | 20 | | |
| Φ | 11 | II | 30 | | |
| Φ | 12 | II | 40 | | |
| Φ | 13 | II | 50 | | |
| | 21 | | | | |
| | 22 | | | | |
| | | | | | |

三

AKA AKA AKA AKA AKA

A. Epoch 200-201 N - CA

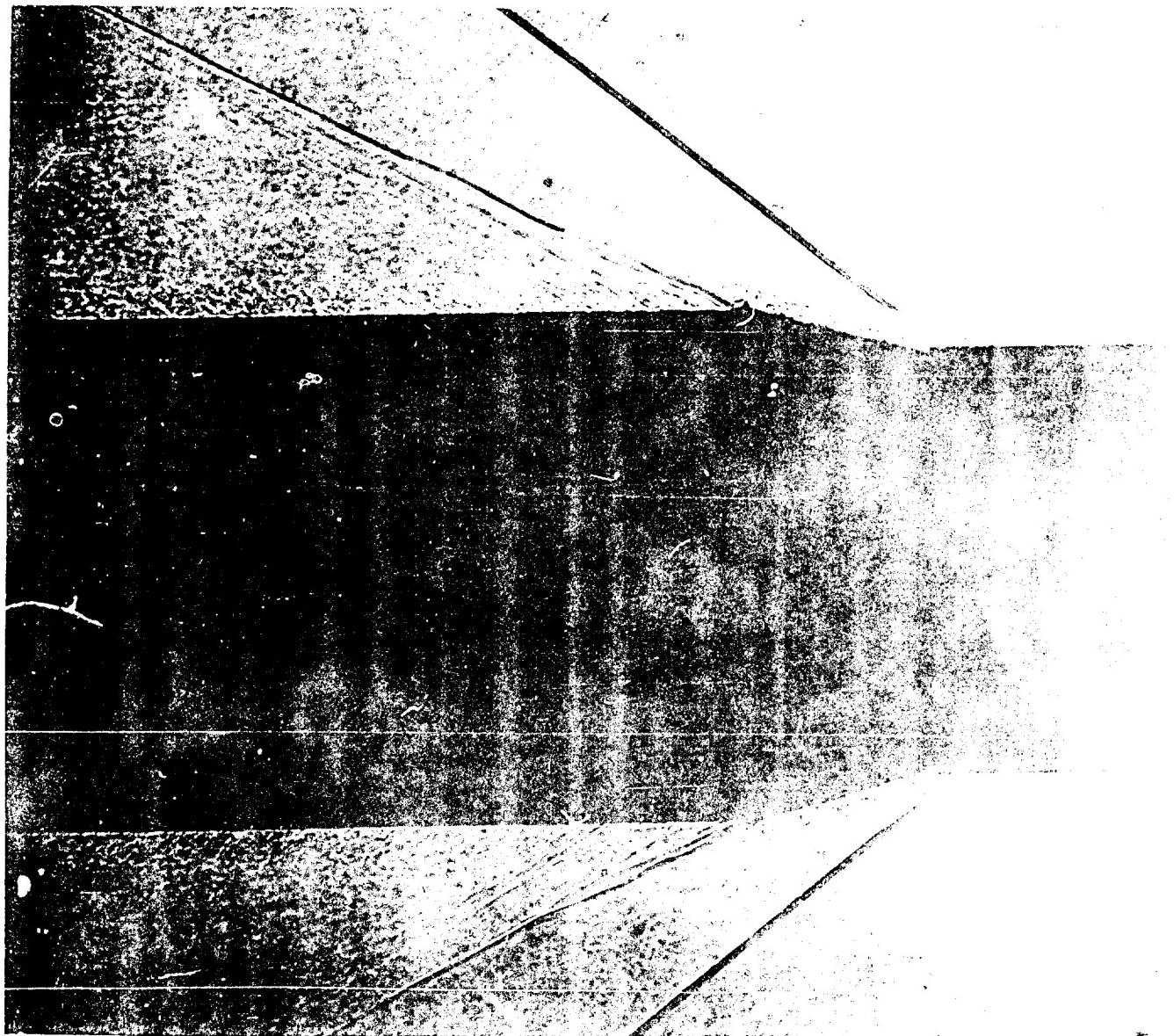


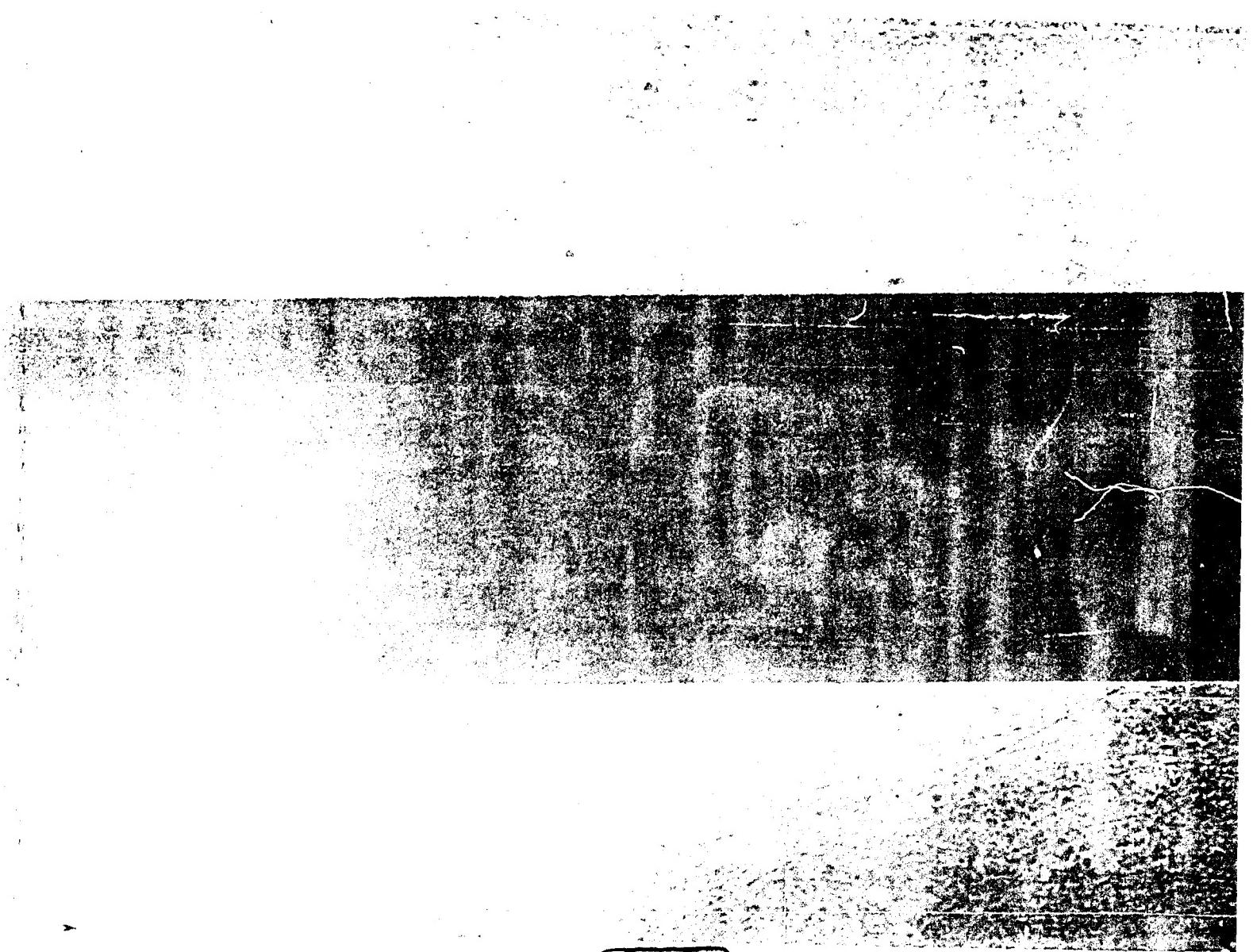
TDR-63-21

APPENDIX IV

SCHLERIN PHOTOGRAPHS

TDR-63-21

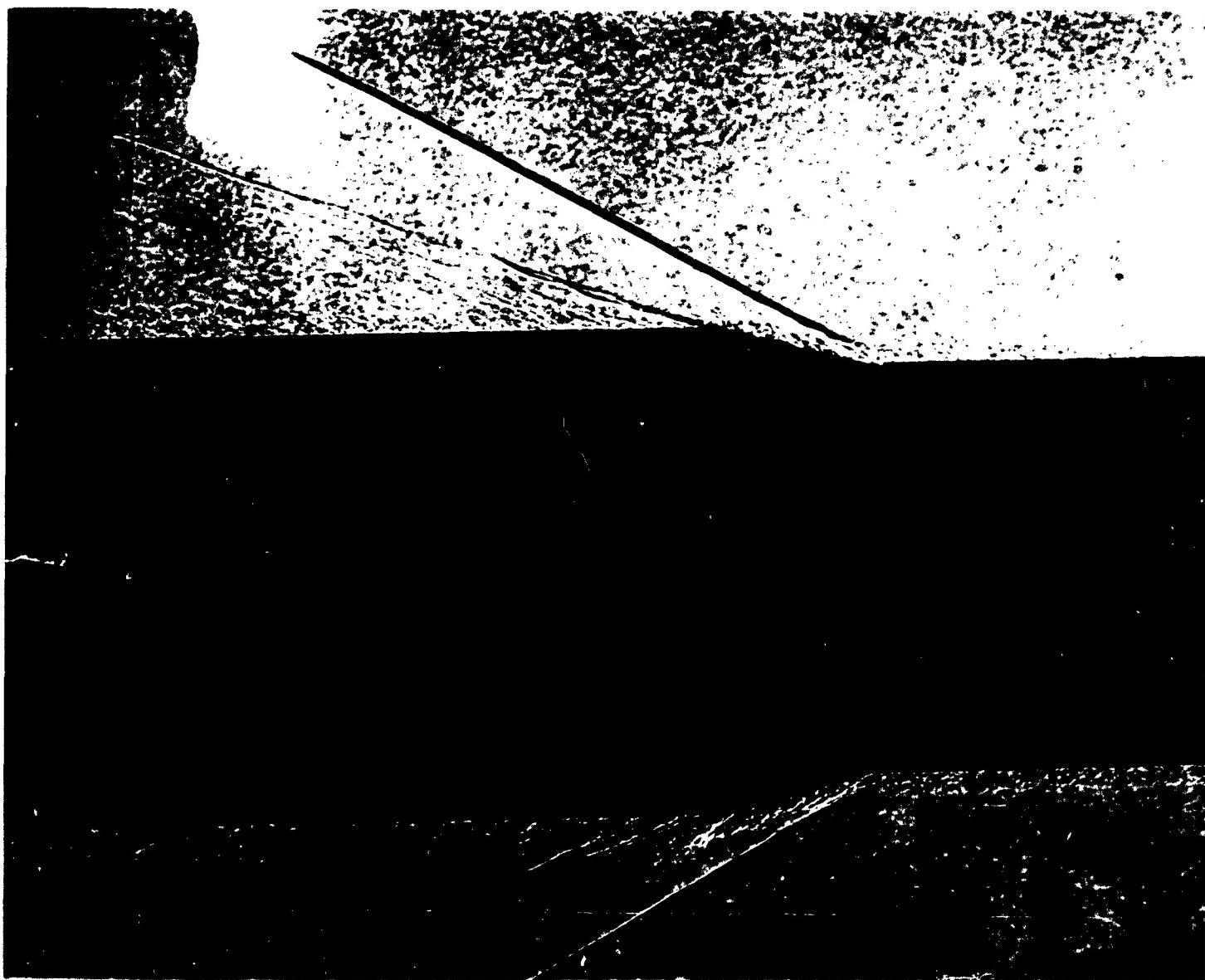




2

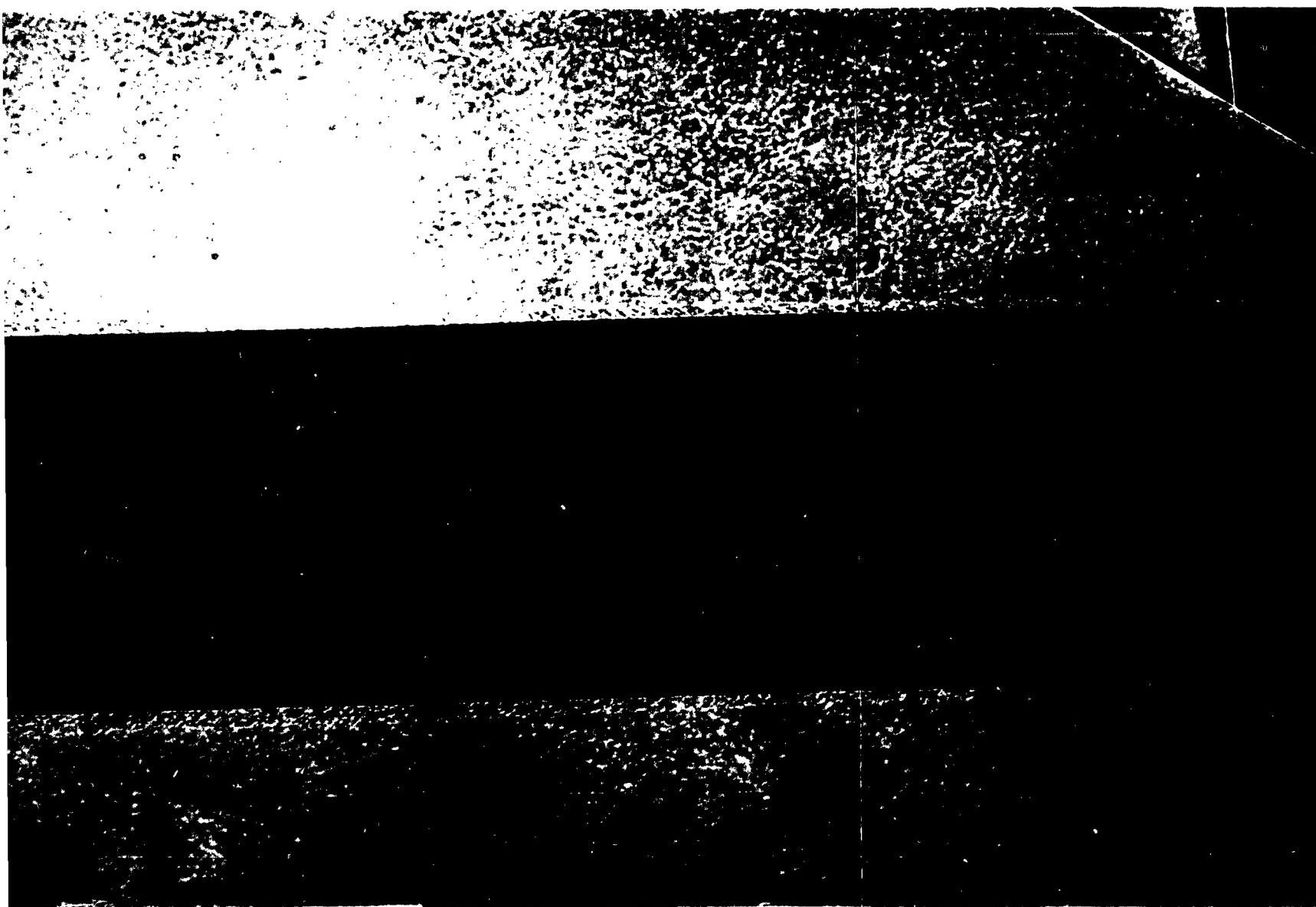
3

TDR-63-21



R-

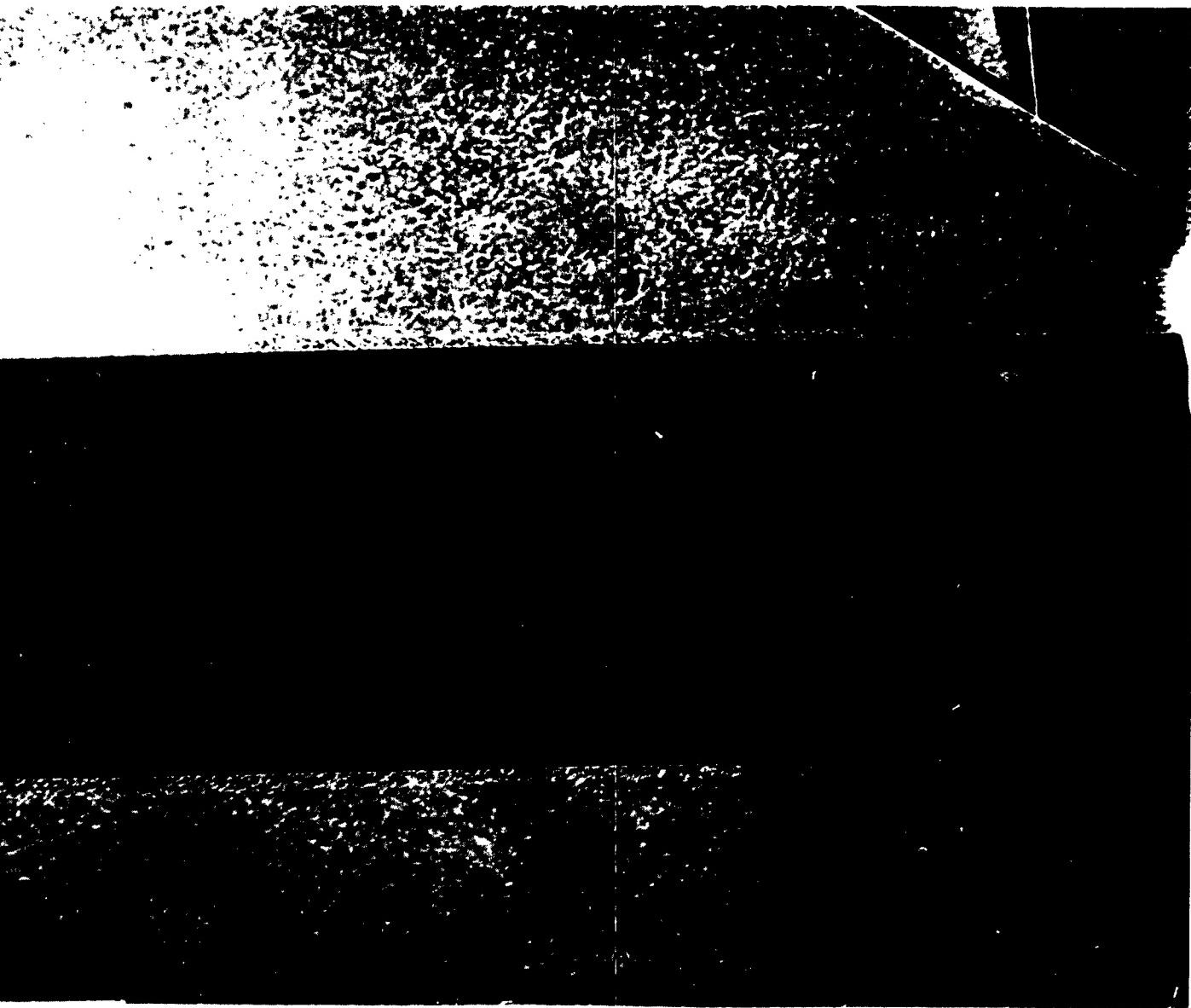
M



R in 27
Mach 3,0

55

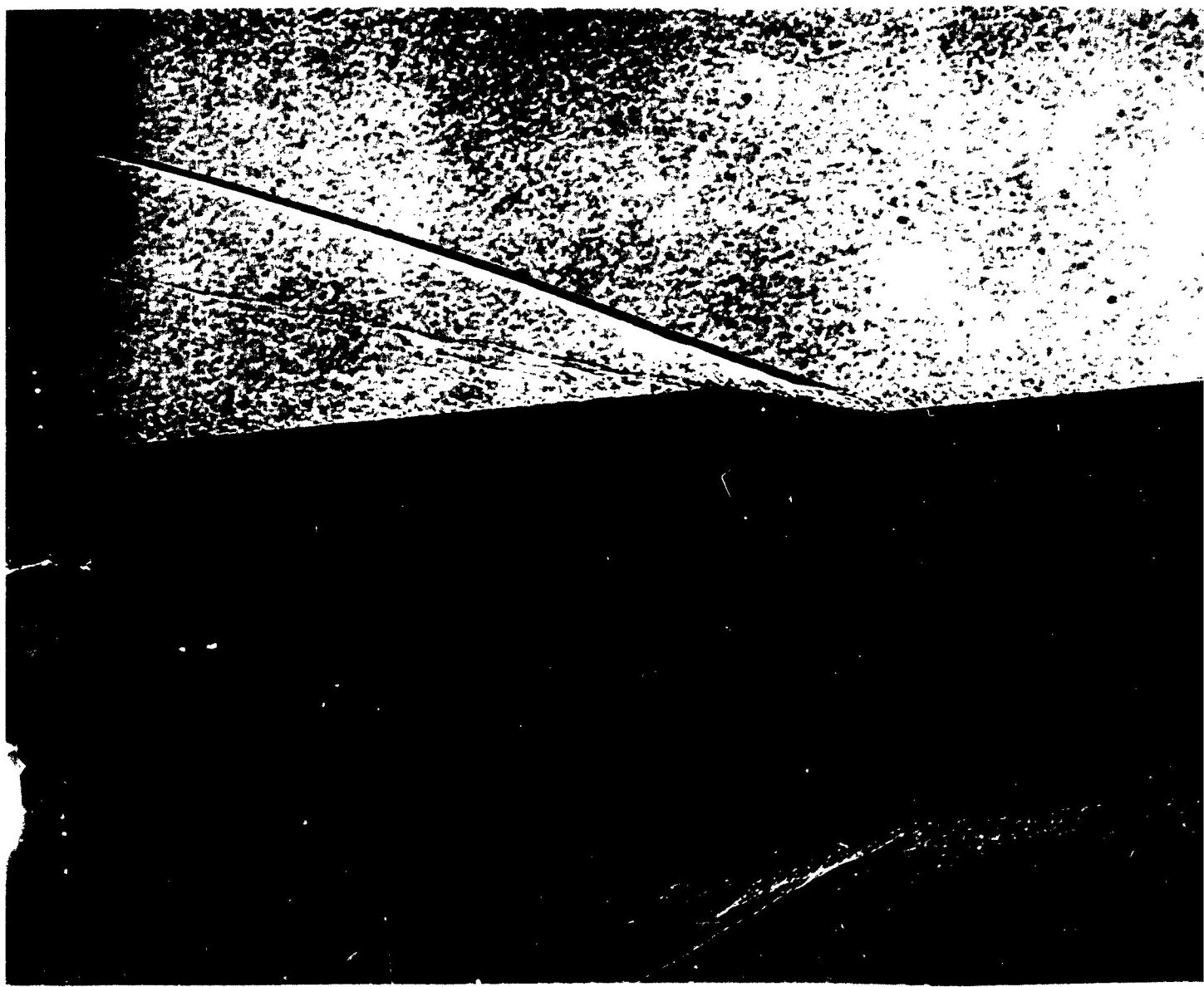




3

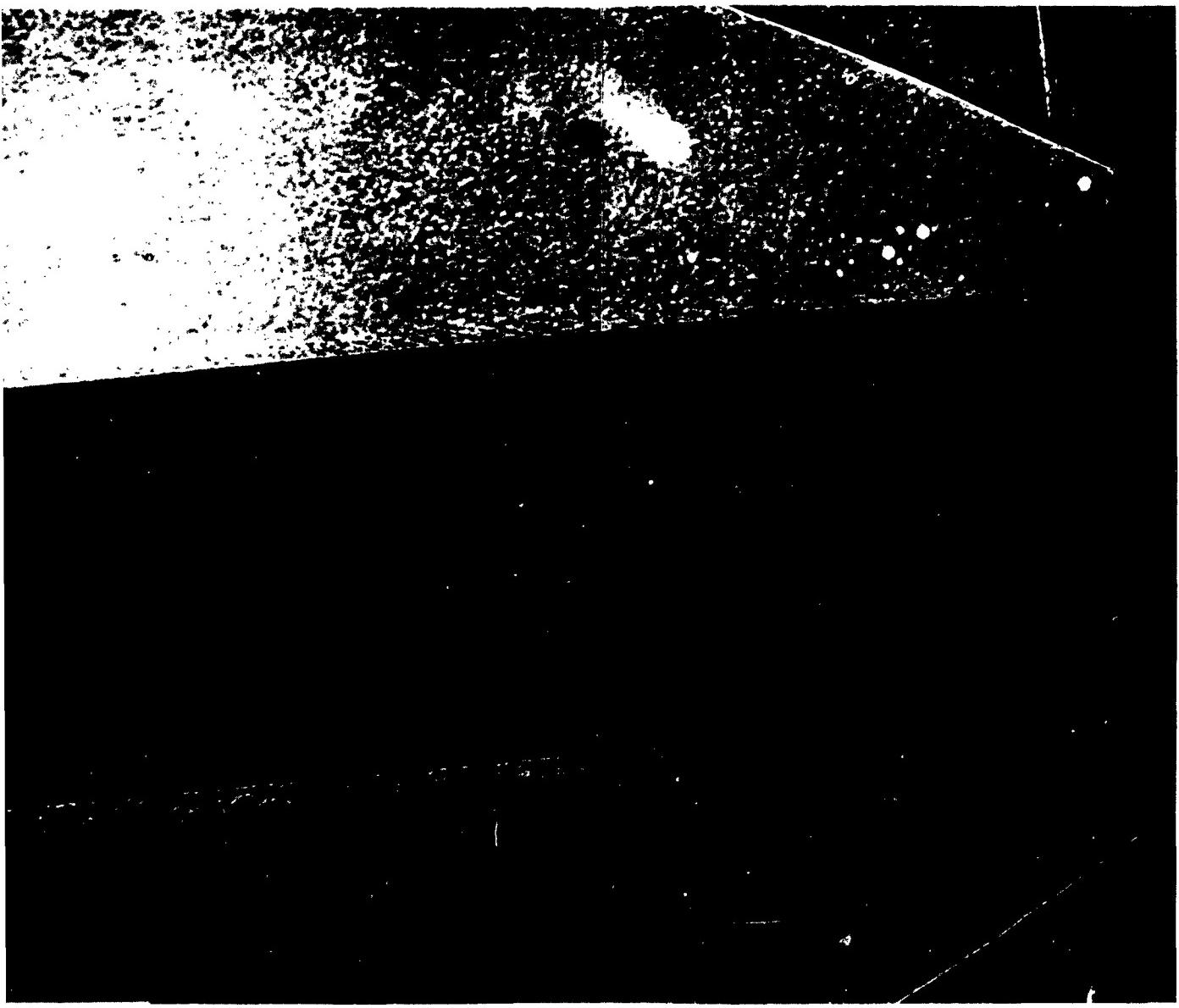
27
ch 3,0

TDR-63-21



Run 26
March 4, 0





Run 26
March 4, 0

3

APPENDIX V

TABULATED DATA

HSNT TEST 89

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89
 RUN 001 MACH NO 1.247 RNFL 07374596 Q 1485 PSF TO 563

COEFFICIENTS

| ALPHA | V | PM | L | D | A | AU | V | YH | RH | AB | CP | P0 | PMT |
|--------|---------|---------|---------|--------|--------|--------|--------|---------|---------|--------|---------|--------|-----|
| 00.12 | 0.0045 | -00.041 | 0.0032 | 0.6276 | 0.6276 | 0.7674 | 0.0161 | -0.0576 | -0.0048 | 0.1397 | -27.817 | 024.42 | 005 |
| 00.14 | C.0080 | -00.032 | 0.0035 | 0.6273 | 0.6273 | 0.7638 | 0.0126 | -0.0580 | -0.0050 | 0.1365 | -12.037 | 024.45 | 006 |
| -11.21 | -0.9598 | -03.181 | -0.8206 | 0.7568 | 0.6220 | 0.7972 | 0.1082 | -0.0691 | -0.0049 | 0.1752 | 10.069 | 024.38 | 007 |
| -11.02 | -0.9300 | -03.141 | -0.7942 | 0.7810 | 0.6208 | 0.7956 | 0.0974 | 0.0592 | -0.0042 | 0.1748 | 10.263 | 024.32 | 008 |
| -10.79 | -0.9043 | -03.065 | -0.7719 | 0.7801 | 0.6218 | 0.7934 | 0.1030 | 0.0733 | -0.0045 | 0.1716 | 10.298 | 024.35 | 009 |
| -10.63 | -0.8879 | -03.016 | -0.7482 | 0.7728 | 0.6216 | 0.7930 | 0.1025 | 0.0575 | -0.0054 | 0.1714 | 10.429 | 024.38 | 010 |
| -10.43 | -0.8577 | -02.952 | -0.7315 | 0.7641 | 0.6189 | 0.7893 | 0.1150 | 0.0372 | -0.0032 | 0.1704 | 10.457 | 024.45 | 011 |
| -10.22 | -0.8344 | -02.899 | -0.7114 | 0.7510 | 0.6188 | 0.7878 | 0.1076 | 0.0347 | -0.0045 | 0.1690 | 10.555 | 024.51 | 012 |
| -10.03 | -0.8113 | -02.846 | -0.6909 | 0.7522 | 0.6204 | 0.7866 | 0.1067 | 0.0406 | -0.0049 | 0.1662 | 10.658 | 024.58 | 013 |
| -09.84 | -0.7890 | -02.805 | -0.6714 | 0.7485 | 0.6208 | 0.7863 | 0.1061 | 0.0324 | -0.0062 | 0.1655 | 10.801 | 024.61 | 014 |
| -09.64 | -0.7672 | -02.751 | -0.6522 | 0.7416 | 0.6219 | 0.7865 | 0.1019 | 0.0521 | -0.0051 | 0.1646 | 10.895 | 024.65 | 015 |
| -09.45 | -0.7498 | -02.701 | -0.6376 | 0.7362 | 0.6216 | 0.7874 | 0.1016 | 0.0584 | -0.0054 | 0.1658 | 10.965 | 024.65 | 016 |
| -09.25 | -0.7257 | -02.635 | -0.6160 | 0.732 | 0.6236 | 0.7874 | 0.0976 | 0.0497 | -0.0043 | 0.1639 | 11.032 | 024.72 | 017 |
| -09.03 | -0.7033 | -02.563 | -0.5969 | 0.728 | 0.6221 | 0.7854 | 0.0999 | 0.0426 | -0.0046 | 0.1634 | 11.071 | 024.76 | 018 |
| -08.86 | -0.6774 | -02.525 | -0.5727 | 0.7240 | 0.6271 | 0.7868 | 0.0926 | 0.0482 | -0.0063 | 0.1597 | 11.323 | 024.86 | 019 |
| -08.65 | -0.6665 | -02.471 | -0.5656 | 0.7148 | 0.6216 | 0.7817 | 0.0814 | 0.0460 | -0.0051 | 0.1601 | 11.261 | 024.86 | 020 |
| -08.46 | -0.6445 | -02.406 | -0.5443 | 0.7079 | 0.6201 | 0.7775 | 0.0800 | 0.0523 | -0.0047 | 0.1575 | 11.375 | 024.86 | 021 |
| -08.27 | -0.6141 | -02.337 | -0.5186 | 0.7039 | 0.6201 | 0.7757 | 0.0855 | 0.0451 | -0.0047 | 0.1556 | 11.563 | 024.86 | 022 |
| -08.08 | -0.5942 | -02.278 | -0.5021 | 0.6919 | 0.6204 | 0.7761 | 0.0777 | 0.0571 | -0.0043 | 0.1557 | 11.628 | 024.85 | 023 |
| -07.90 | -0.5689 | -02.226 | -0.4782 | 0.6935 | 0.6212 | 0.7751 | 0.0735 | 0.0412 | -0.0056 | 0.1539 | 11.890 | 024.91 | 024 |
| -07.71 | -0.5515 | -02.166 | -0.4630 | 0.6904 | 0.6220 | 0.7750 | 0.0695 | 0.0180 | -0.0028 | 0.1535 | 11.931 | 024.91 | 025 |
| -07.53 | -0.5317 | -02.116 | -0.4455 | 0.6814 | 0.6231 | 0.7755 | 0.0187 | -0.0041 | -0.0016 | 0.1533 | 12.092 | 024.98 | 026 |
| -07.34 | -0.5119 | -02.083 | -0.4310 | 0.6841 | 0.6234 | 0.7755 | 0.0328 | -0.0050 | -0.0050 | 0.1521 | 12.288 | 024.98 | 027 |
| -07.13 | -0.4942 | -02.022 | -0.4128 | 0.6819 | 0.6201 | 0.7748 | 0.0451 | -0.0085 | -0.0052 | 0.1503 | 12.431 | 024.92 | 028 |
| -06.95 | -0.4832 | -01.978 | -0.4012 | 0.6770 | 0.6234 | 0.7742 | 0.0632 | -0.0080 | -0.0052 | 0.1503 | 12.512 | 024.92 | 029 |
| -06.77 | -0.4679 | -01.931 | -0.3911 | 0.6750 | 0.6242 | 0.7735 | 0.0592 | -0.0069 | -0.0056 | 0.1494 | 12.540 | 024.95 | 030 |
| -06.59 | -0.4492 | -01.883 | -0.3746 | 0.6721 | 0.6247 | 0.7728 | 0.0615 | -0.0068 | -0.0035 | 0.1481 | 12.731 | 024.98 | 031 |
| -06.35 | -0.4223 | -01.834 | -0.3556 | 0.6681 | 0.6246 | 0.7707 | 0.0574 | -0.0016 | -0.0050 | 0.1460 | 13.039 | 024.92 | 032 |
| -06.22 | -0.4114 | -01.793 | -0.3416 | 0.6632 | 0.6223 | 0.7686 | 0.0533 | -0.0115 | -0.0061 | 0.1463 | 13.218 | 024.91 | 033 |
| -06.01 | -0.3932 | -01.746 | -0.3255 | 0.6628 | 0.6250 | 0.7695 | 0.0548 | -0.0040 | -0.0061 | 0.1480 | 14.485 | 024.98 | 034 |
| -05.83 | -0.3835 | -01.697 | -0.3180 | 0.6614 | 0.6257 | 0.7700 | 0.0563 | -0.0106 | -0.0046 | 0.1443 | 13.446 | 024.98 | 035 |
| -05.53 | -0.3624 | -01.664 | -0.2990 | 0.6612 | 0.6287 | 0.7714 | 0.0593 | -0.0176 | -0.0031 | 0.1427 | 13.948 | 024.92 | 036 |
| -05.43 | -0.3493 | -01.615 | -0.2881 | 0.6602 | 0.6300 | 0.7711 | 0.0590 | -0.0108 | -0.0022 | 0.1412 | 14.049 | 024.91 | 037 |
| -05.24 | -0.3385 | -01.572 | -0.2798 | 0.6556 | 0.6273 | 0.7685 | 0.0652 | -0.0171 | -0.0034 | 0.1412 | 14.108 | 024.95 | 038 |
| -05.01 | -0.3183 | -01.518 | -0.2623 | 0.6520 | 0.6266 | 0.7646 | 0.0548 | -0.0340 | -0.0061 | 0.1380 | 14.485 | 024.98 | 039 |
| -04.84 | -0.3034 | -01.473 | -0.2491 | 0.6503 | 0.6250 | 0.7651 | 0.0579 | -0.0119 | -0.0048 | 0.1381 | 14.700 | 024.92 | 040 |
| -04.62 | -0.2926 | -01.435 | -0.2412 | 0.6485 | 0.6270 | 0.7657 | 0.0505 | -0.0215 | -0.0035 | 0.1391 | 14.896 | 024.95 | 041 |
| -04.43 | -0.2751 | -01.403 | -0.2255 | 0.6505 | 0.6311 | 0.7666 | 0.0502 | -0.0147 | -0.0048 | 0.1355 | 15.461 | 024.91 | 042 |
| -03.27 | -0.2809 | -01.323 | -0.2334 | 0.6491 | 0.6300 | 0.7659 | 0.0332 | -0.0022 | -0.0051 | 0.1359 | 14.307 | 024.95 | 043 |
| -03.05 | -0.2510 | -01.298 | -0.2058 | 0.6461 | 0.6299 | 0.7646 | 0.0459 | -0.0053 | -0.0053 | 0.1347 | 15.704 | 024.98 | 044 |
| -03.84 | -0.2370 | -01.239 | -0.1941 | 0.6455 | 0.6311 | 0.7660 | 0.0628 | -0.0355 | -0.0043 | 0.1349 | 15.888 | 024.95 | 045 |
| -03.65 | -0.2269 | -01.197 | -0.1864 | 0.6421 | 0.6289 | 0.7631 | 0.0419 | -0.0119 | -0.0059 | 0.1341 | 16.024 | 024.92 | 046 |
| -03.46 | -0.2130 | -01.167 | -0.1745 | 0.6424 | 0.6270 | 0.7657 | 0.0282 | -0.0069 | -0.0062 | 0.1350 | 16.363 | 024.95 | 047 |
| -03.27 | -0.2032 | -01.088 | -0.1668 | 0.6422 | 0.6317 | 0.7644 | 0.0276 | -0.0144 | -0.0054 | 0.1328 | 16.275 | 024.92 | 048 |
| -03.05 | -0.1891 | -01.029 | -0.1553 | 0.6384 | 0.6293 | 0.7627 | 0.0036 | -0.0022 | -0.0021 | 0.1337 | 16.532 | 024.99 | 049 |
| -02.86 | -0.1789 | -00.977 | -0.1471 | 0.6399 | 0.6317 | 0.7637 | 0.0634 | -0.0238 | -0.0047 | 0.1320 | 16.593 | 024.99 | 050 |
| -02.67 | -0.1565 | -00.921 | -0.1270 | 0.6318 | 0.6312 | 0.7615 | 0.0664 | -0.0054 | -0.0049 | 0.1303 | 17.866 | 024.92 | 051 |
| -02.50 | -0.1567 | -00.869 | -0.1291 | 0.6359 | 0.6297 | 0.7610 | 0.0310 | -0.0007 | -0.0043 | 0.1313 | 16.838 | 024.98 | 052 |
| -02.29 | -0.1422 | -00.824 | -0.1169 | 0.6382 | 0.6310 | 0.7633 | 0.0395 | -0.0080 | -0.0061 | 0.1323 | 17.609 | 024.98 | 053 |
| -02.12 | -0.1312 | -00.769 | -0.1078 | 0.6353 | 0.6309 | 0.7608 | 0.0557 | -0.0021 | -0.0047 | 0.1299 | 17.803 | 024.98 | 054 |
| -01.96 | -0.1248 | -00.712 | -0.1032 | 0.6331 | 0.6292 | 0.7612 | 0.0357 | -0.0171 | -0.0056 | 0.1321 | 17.324 | 024.95 | 055 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 69 | | | | | | | | | | HSWT TEST 89 | | | | | | | | | |
|--|----------|---------|---------|--------|--------|--------|---------|---------|---------|--------------|--------|--------|-----|--|--|--|--|--|--|
| RUN 001 MACH NO 1.247 RNL 07374596 Q 1685 PSF TD 563 | | | | | | | | | | 10/17/62 | | | | | | | | | |
| COEFFICIENTS | | | | | | | | | | | | | | | | | | | |
| ALPHA | N | PM | L | D | A | AU | Y | YM | RM | AB | CP | P0 | PNT | | | | | | |
| -01.77 | -0.1144 | -30.650 | -0.0948 | 0.6336 | 0.6304 | 0.7616 | 0.0382 | 0.0114 | -0.0045 | 0.1312 | 17.266 | 024.51 | 056 | | | | | | |
| -01.56 | -0.0996 | -30.588 | -0.0825 | 0.6308 | 0.6283 | 0.7596 | 0.0417 | -0.0318 | -0.0043 | 0.1313 | 17.933 | 024.58 | 057 | | | | | | |
| -01.37 | -0.0820 | -30.535 | -0.0669 | 0.6328 | 0.6310 | 0.7616 | 0.0345 | -0.0195 | -0.0039 | 0.1306 | 19.850 | 024.55 | 058 | | | | | | |
| -01.18 | -0.0680 | -30.478 | -0.0550 | 0.6343 | 0.6331 | 0.7631 | 0.0315 | -0.0498 | -0.0041 | 0.1318 | 21.339 | 024.42 | 059 | | | | | | |
| -00.99 | -0.05649 | -30.409 | -0.0500 | 0.6313 | 0.6302 | 0.7614 | 0.0344 | -0.0497 | -0.0038 | 0.1312 | 19.162 | 024.51 | 060 | | | | | | |
| -00.81 | -0.0582 | -30.358 | -0.0494 | 0.6330 | 0.6292 | 0.7604 | 0.0305 | -0.0365 | -0.0040 | 0.1312 | 18.701 | 024.51 | 061 | | | | | | |
| -00.62 | -0.0552 | -30.317 | -0.0484 | 0.6343 | 0.6338 | 0.7630 | 0.0235 | -0.0240 | -0.0044 | 0.1292 | 17.452 | 024.45 | 062 | | | | | | |
| -00.41 | -0.0446 | -30.266 | -0.0401 | 0.6320 | 0.6317 | 0.7611 | 0.0302 | -0.0520 | -0.0048 | 0.1294 | 16.164 | 024.42 | 063 | | | | | | |
| -00.22 | -0.0380 | -30.216 | -0.0351 | 0.6331 | 0.6320 | 0.7634 | 0.0299 | -0.0454 | -0.0044 | 0.1305 | 17.301 | 024.3 | 064 | | | | | | |
| -00.16 | -0.0352 | -30.158 | -0.0345 | 0.6323 | 0.6323 | 0.7634 | 0.0329 | -0.0381 | -0.0046 | 0.1311 | 13.630 | 024.29 | 065 | | | | | | |
| 00.15 | -0.0207 | -30.113 | -0.0224 | 0.6313 | 0.6314 | 0.7625 | 0.0257 | -0.0327 | -0.0037 | 0.1311 | 16.565 | 024.29 | 066 | | | | | | |
| 00.31 | -0.0144 | -30.037 | -0.0178 | 0.6314 | 0.6314 | 0.7611 | 0.0259 | -0.0481 | -0.0045 | 0.1307 | 07.782 | 024.35 | 067 | | | | | | |
| 00.53 | -0.0005 | 30.016 | -0.0063 | 0.6319 | 0.6319 | 0.7630 | 0.0320 | -0.0330 | -0.0040 | 0.1311 | 97.407 | 024.35 | 068 | | | | | | |
| 00.72 | -0.0109 | 30.084 | -0.0021 | 0.6313 | 0.6313 | 0.7650 | 0.0284 | -0.0346 | -0.0033 | 0.1338 | 25.493 | 024.32 | 069 | | | | | | |
| 00.91 | -0.0205 | 30.136 | -0.0104 | 0.6323 | 0.6323 | 0.7615 | 0.0294 | -0.0294 | -0.0040 | 0.1300 | 20.200 | 024.35 | 070 | | | | | | |
| 01.11 | 0.0312 | 30.204 | 0.0190 | 0.6311 | 0.6307 | 0.7638 | 0.0243 | -0.0584 | -0.0038 | 0.1331 | 19.862 | 024.42 | 071 | | | | | | |
| 01.27 | 0.0417 | 30.255 | 0.0277 | 0.6313 | 0.6305 | 0.7631 | 0.0139 | -0.0608 | -0.0044 | 0.1326 | 16.568 | 024.51 | 072 | | | | | | |
| 01.46 | 0.0519 | 30.297 | 0.0359 | 0.6319 | 0.6281 | 0.7626 | 0.0257 | -0.0527 | -0.0042 | 0.1360 | 17.384 | 024.61 | 073 | | | | | | |
| 01.68 | 0.0658 | 30.381 | 0.0673 | 0.6298 | 0.6298 | 0.7633 | 0.0196 | -0.0615 | -0.0039 | 0.1372 | 17.611 | 024.61 | 074 | | | | | | |
| 01.87 | 0.0724 | 30.439 | 0.0518 | 0.6318 | 0.6297 | 0.7633 | 0.0194 | -0.0694 | -0.0042 | 0.1365 | 18.423 | 024.67 | 075 | | | | | | |
| 02.06 | 0.0867 | 30.492 | 0.0639 | 0.6326 | 0.6331 | 0.7638 | 0.0089 | -0.0651 | -0.0044 | 0.1367 | 17.239 | 024.64 | 076 | | | | | | |
| 02.25 | 0.0943 | 30.538 | 0.0692 | 0.6340 | 0.6340 | 0.7734 | 0.0187 | -0.0784 | -0.0037 | 0.1366 | 17.323 | 024.51 | 077 | | | | | | |
| 02.41 | 0.1012 | 30.599 | 0.0744 | 0.6382 | 0.6345 | 0.7707 | 0.0212 | -0.0568 | -0.0030 | 0.1361 | 17.986 | 024.42 | 078 | | | | | | |
| 02.63 | 0.1074 | 30.655 | 0.0783 | 0.6363 | 0.6321 | 0.7690 | 0.0173 | -0.0509 | -0.0035 | 0.1369 | 18.560 | 024.51 | 079 | | | | | | |
| 02.81 | 0.1221 | 30.701 | 0.0908 | 0.6397 | 0.6344 | 0.7711 | 0.0102 | -0.0599 | -0.0035 | 0.1367 | 17.437 | 024.48 | 080 | | | | | | |
| 03.00 | 0.1293 | 30.745 | 0.0958 | 0.6338 | 0.6379 | 0.7767 | 0.0098 | -0.0535 | -0.0030 | 0.1361 | 17.511 | 024.42 | 081 | | | | | | |
| 03.19 | 0.1436 | 30.815 | 0.1080 | 0.6429 | 0.6359 | 0.7761 | 0.0126 | -0.0609 | -0.0031 | 0.1382 | 17.268 | 024.38 | 082 | | | | | | |
| 03.40 | 0.1508 | 30.868 | 0.1126 | 0.6471 | 0.6340 | 0.7753 | 0.0022 | -0.0634 | -0.0037 | 0.1360 | 17.481 | 024.35 | 083 | | | | | | |
| 03.59 | 0.1653 | 30.904 | 0.1252 | 0.6448 | 0.6357 | 0.7731 | 0.0016 | -0.0637 | -0.0036 | 0.1374 | 16.613 | 024.35 | 084 | | | | | | |
| 03.75 | 0.1830 | 30.965 | 0.1410 | 0.6458 | 0.6352 | 0.7768 | -0.0024 | -0.0581 | -0.0033 | 0.1397 | 16.014 | 024.38 | 085 | | | | | | |
| 03.94 | 0.1893 | 31.022 | 0.1598 | 0.6465 | 0.6350 | 0.7759 | 0.0035 | -0.0440 | -0.0031 | 0.1365 | 17.408 | 024.42 | 086 | | | | | | |
| 04.13 | 0.2037 | 31.083 | 0.1573 | 0.6507 | 0.6377 | 0.7767 | 0.0035 | -0.0657 | -0.0032 | 0.1390 | 16.154 | 024.42 | 087 | | | | | | |
| 04.31 | 0.2104 | 31.133 | 0.1619 | 0.6518 | 0.6378 | 0.7762 | -0.0037 | -0.0603 | -0.0033 | 0.1383 | 16.358 | 024.5 | 088 | | | | | | |
| 04.56 | 0.2247 | 31.185 | 0.1737 | 0.6598 | 0.6340 | 0.7766 | -0.0041 | -0.0682 | -0.0026 | 0.1404 | 16.626 | 024.45 | 089 | | | | | | |
| 04.72 | 0.2396 | 31.239 | 0.1864 | 0.6548 | 0.6365 | 0.7798 | -0.0009 | -0.0972 | -0.0024 | 0.1433 | 15.713 | 024.42 | 090 | | | | | | |
| 04.89 | 0.2531 | 31.298 | 0.1977 | 0.6576 | 0.6383 | 0.7814 | -0.0016 | -0.0766 | -0.0028 | 0.1431 | 15.583 | 024.45 | 091 | | | | | | |
| 05.11 | 0.2648 | 31.355 | 0.2268 | 0.6694 | 0.6397 | 0.7819 | -0.0056 | -0.0709 | -0.0015 | 0.1462 | 15.556 | 024.35 | 092 | | | | | | |
| 05.28 | 0.2837 | 31.413 | 0.2236 | 0.6630 | 0.6369 | 0.7817 | -0.0062 | -0.0788 | -0.0028 | 0.1441 | 15.136 | 024.29 | 093 | | | | | | |
| 05.48 | 0.2980 | 31.458 | 0.2357 | 0.6639 | 0.6384 | 0.7814 | -0.0136 | -0.0734 | -0.0028 | 0.1460 | 14.857 | 024.29 | 094 | | | | | | |
| 05.65 | 0.3133 | 31.507 | 0.2490 | 0.6664 | 0.6387 | 0.7806 | -0.0074 | -0.0658 | -0.0028 | 0.1479 | 14.612 | 024.22 | 095 | | | | | | |
| 05.89 | 0.3225 | 31.552 | 0.2554 | 0.6671 | 0.6374 | 0.7831 | -0.0181 | -0.0607 | -0.0020 | 0.1457 | 14.617 | 024.32 | 096 | | | | | | |
| 06.09 | 0.3397 | 31.594 | 0.2705 | 0.6657 | 0.6343 | 0.7840 | -0.0083 | -0.0667 | -0.0027 | 0.1497 | 14.253 | 024.38 | 097 | | | | | | |
| 06.28 | 0.3501 | 31.637 | 0.2786 | 0.6694 | 0.6349 | 0.7846 | -0.0122 | -0.0605 | -0.0015 | 0.1497 | 14.205 | 024.38 | 098 | | | | | | |
| 06.48 | 0.3678 | 31.682 | 0.2936 | 0.6743 | 0.6369 | 0.7850 | -0.0127 | -0.0539 | -0.0019 | 0.1501 | 13.895 | 024.38 | 099 | | | | | | |
| 06.70 | 0.3886 | 31.735 | 0.3111 | 0.6793 | 0.6383 | 0.7814 | -0.0135 | -0.0400 | -0.0019 | 0.1490 | 13.560 | 024.4 | 100 | | | | | | |
| 06.87 | 0.4031 | 31.788 | 0.3238 | 0.6826 | 0.6390 | 0.7866 | -0.0139 | -0.0477 | -0.0014 | 0.1496 | 13.479 | 024.42 | 101 | | | | | | |
| 07.06 | 0.4215 | 31.835 | 0.3393 | 0.6855 | 0.6386 | 0.7889 | -0.0178 | -0.0558 | -0.0016 | 0.1503 | 13.231 | 024.38 | 102 | | | | | | |
| 07.26 | 0.4335 | 31.871 | 0.3497 | 0.6862 | 0.6365 | 0.7815 | -0.0212 | -0.0494 | -0.0016 | 0.1510 | 13.111 | 024.48 | 103 | | | | | | |
| 07.48 | 0.4541 | 31.922 | 0.3674 | 0.6901 | 0.6365 | 0.7812 | -0.0215 | -0.0427 | -0.0011 | 0.1508 | 12.861 | 024.51 | 104 | | | | | | |
| 07.65 | 0.4719 | 31.985 | 0.3831 | 0.6929 | 0.6358 | 0.7811 | -0.0216 | -0.0431 | -0.0019 | 0.1513 | 12.778 | 024.51 | 105 | | | | | | |
| 07.84 | 0.4902 | 32.033 | 0.3987 | 0.6987 | 0.6372 | 0.7892 | -0.0152 | -0.0352 | -0.0009 | 0.1520 | 12.597 | 024.48 | 106 | | | | | | |

HSWT TEST 89

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89
RUN 001 MACH NO 1.247 RN/L 07374596 Q 1685 PSF TD 563

| ALPHA | N | COEFFICIENTS | | | | | | | | | | RM | AB | CP | PO | PNT |
|-------|--------|--------------|--------|--------|--------|--------|---------|---------|---------|--------|---------|--------|-----|----|----|-----|
| | | P | M | L | D | A | AU | Y | YM | RM | AB | | | | | |
| 08.34 | 0.5015 | 02.075 | 0.4133 | 0.7024 | 0.6376 | 0.7890 | -0.0152 | -0.0498 | -0.0009 | 0.1513 | 12.420 | 024.51 | 107 | | | |
| 08.26 | 0.5183 | 02.146 | 0.4216 | 0.7039 | 0.6361 | 0.7891 | -0.0169 | -0.0365 | -0.0001 | 0.1530 | 12.580 | 024.48 | 108 | | | |
| 08.46 | 0.5395 | 02.218 | 0.4444 | 0.7063 | 0.6332 | 0.7896 | -0.0225 | -0.0447 | -0.0005 | 0.1554 | 12.400 | 024.48 | 109 | | | |
| 08.63 | 0.5132 | 02.277 | 0.4715 | 0.7134 | 0.6346 | 0.7893 | -0.0294 | -0.0606 | -0.0008 | 0.1547 | 12.066 | 024.45 | 110 | | | |
| 08.86 | 0.5998 | 02.346 | 0.4950 | 0.7192 | 0.6344 | 0.7890 | -0.0299 | -0.0610 | -0.0002 | 0.1546 | 11.882 | 024.38 | 111 | | | |
| 09.06 | 0.6555 | 02.403 | 0.5173 | 0.7287 | 0.6382 | 0.7910 | -0.0300 | -0.0616 | -0.0006 | 0.1528 | 11.672 | 024.35 | 112 | | | |
| 09.25 | 0.6866 | 02.446 | 0.5374 | 0.7352 | 0.6393 | 0.7919 | -0.0268 | -0.0756 | -0.0003 | 0.1526 | 11.455 | 024.32 | 113 | | | |
| 09.46 | 0.6627 | 02.493 | 0.5694 | 0.7358 | 0.6357 | 0.7913 | -0.0237 | -0.0681 | -0.0015 | 0.1556 | 11.617 | 024.32 | 114 | | | |
| 09.61 | 0.6192 | 02.523 | 0.5641 | 0.7369 | 0.6324 | 0.7896 | -0.0275 | -0.0472 | -0.0007 | 0.1571 | 11.284 | 024.35 | 115 | | | |
| 09.75 | 0.6962 | 02.565 | 0.5790 | 0.7420 | 0.6332 | 0.7882 | -0.0276 | -0.0473 | -0.0000 | 0.1550 | 11.191 | 024.38 | 116 | | | |
| 09.92 | 0.7156 | 02.620 | 0.5960 | 0.7654 | 0.6316 | 0.7871 | -0.0243 | -0.0474 | -0.0011 | 0.1555 | 11.123 | 024.45 | 117 | | | |
| 10.36 | 0.7990 | 02.652 | 0.6173 | 0.7507 | 0.6313 | 0.7894 | -0.0243 | -0.0477 | -0.0003 | 0.1570 | 10.900 | 024.51 | 118 | | | |
| 10.18 | 0.1531 | 02.697 | 0.6294 | 0.7565 | 0.6334 | 0.7901 | -0.0278 | -0.0350 | -0.0009 | 0.1566 | 10.878 | 024.51 | 119 | | | |
| 10.22 | 0.7706 | 02.750 | 0.6449 | 0.7597 | 0.6319 | 0.7914 | -0.0276 | -0.0360 | -0.0009 | 0.1595 | 10.841 | 024.51 | 120 | | | |
| 10.41 | 0.7696 | 02.787 | 0.6627 | 0.7624 | 0.6301 | 0.7935 | -0.0273 | -0.0511 | -0.0009 | 0.1604 | 10.722 | 024.58 | 121 | | | |
| 10.53 | 0.8001 | 02.839 | 0.6712 | 0.7672 | 0.6317 | 0.7916 | -0.0337 | -0.0605 | -0.0010 | 0.1600 | 10.779 | 024.58 | 122 | | | |
| 10.59 | 0.8237 | 02.868 | 0.6933 | 0.7770 | 0.6364 | 0.7939 | -0.0371 | -0.0690 | -0.0012 | 0.1595 | 10.571 | 024.51 | 123 | | | |
| 10.67 | 0.8317 | 02.897 | 0.7001 | 0.7760 | 0.6330 | 0.7930 | -0.0339 | -0.0545 | -0.0014 | 0.1620 | 10.582 | 024.48 | 124 | | | |
| 10.76 | 0.8014 | 02.941 | 0.7080 | 0.7814 | 0.6356 | 0.7933 | -0.0304 | -0.0830 | -0.0008 | 0.1597 | 10.617 | 024.42 | 125 | | | |
| 10.86 | 0.8477 | 02.949 | 0.7133 | 0.7810 | 0.6326 | 0.7931 | -0.0341 | -0.0548 | -0.0006 | 0.1605 | 10.568 | 024.42 | 126 | | | |
| 11.01 | 0.8720 | 02.978 | 0.7347 | 0.7901 | 0.6353 | 0.7933 | -0.0342 | -0.0626 | -0.0019 | 0.1600 | 10.377 | 024.35 | 127 | | | |
| 11.15 | 0.8802 | 03.018 | 0.7416 | 0.7894 | 0.6312 | 0.7933 | -0.0308 | -0.0696 | -0.0016 | 0.1632 | 10.446 | 024.32 | 128 | | | |
| 11.24 | 0.8900 | 03.054 | 0.7586 | 0.7953 | 0.6322 | 0.7934 | -0.0339 | -0.0852 | -0.0007 | 0.1612 | 10.320 | 024.38 | 129 | | | |
| 11.30 | 0.9022 | 03.095 | 0.7665 | 0.7986 | 0.6329 | 0.7935 | -0.0339 | -0.0577 | -0.0024 | 0.1615 | 10.353 | 024.42 | 130 | | | |
| 11.38 | 0.9124 | 03.095 | 0.7702 | 0.7971 | 0.6294 | 0.7918 | -0.0305 | -0.0568 | -0.0006 | 0.1624 | 10.305 | 024.48 | 131 | | | |
| 11.39 | 0.9131 | 03.103 | 0.7701 | 0.8008 | 0.6330 | 0.7945 | -0.0403 | -0.0380 | -0.0014 | 0.1615 | 10.326 | 024.55 | 132 | | | |
| 11.42 | 0.9171 | 03.122 | 0.7740 | 0.8003 | 0.6313 | 0.7948 | -0.0335 | -0.0515 | -0.0019 | 0.1635 | 10.343 | 024.55 | 133 | | | |
| 11.42 | 0.9310 | 03.143 | 0.7871 | 0.8054 | 0.6336 | 0.7932 | -0.0337 | -0.0517 | -0.0019 | 0.1626 | 10.256 | 024.48 | 134 | | | |
| 11.42 | 0.9319 | 03.146 | 0.7875 | 0.8081 | 0.6361 | 0.7944 | -0.0336 | -0.0592 | -0.0023 | 0.1623 | 10.255 | 024.45 | 135 | | | |
| 00.05 | 0.0413 | -00.025 | 0.0407 | 0.6422 | 0.6422 | 0.7633 | -0.0121 | -0.0515 | -0.0047 | 0.1271 | 00.813 | 024.42 | 137 | | | |
| 00.05 | 0.0360 | -00.043 | 0.0334 | 0.6416 | 0.6415 | 0.7668 | 0.0190 | -0.0498 | -0.0059 | 0.1253 | -03.821 | 024.38 | 137 | | | |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | | | HSWT TEST 89 | | | | | | | | | | | | |
|--|---------|---------|---------|--------|--------|--------|---------|---------|---------|--------|---------|--------------|-----|--|--|--|--|--|--|--|--|--|--|--|
| RUN 002 MACH NO 1.244 RNL 07456231 Q 1484 PSF TO 558 | | | | | | | | | | | | 10/17/62 | | | | | | | | | | | | |
| COEFFICIENTS | | | | | | | | | | | | | | | | | | | | | | | | |
| ALPHA | N | PM | L | D | A | AU | V | YM | RW | AB | CP | P0 | PNT | | | | | | | | | | | |
| 30.17 | 0.0263 | -20.086 | 0.0219 | 0.8362 | 0.8361 | 1.0274 | 0.0279 | -0.1014 | -0.0031 | 0.1913 | -10.707 | 024.40 | 006 | | | | | | | | | | | |
| -10.57 | -2.0511 | 05.192 | -1.8752 | 1.1651 | 0.8014 | 1.0128 | 0.0430 | -0.1354 | -0.0041 | 0.2114 | -07.668 | 024.42 | 007 | | | | | | | | | | | |
| -10.4 | -2.0179 | 05.118 | -1.8397 | 1.1535 | 0.8020 | 1.0137 | 0.0493 | -0.1615 | -0.0046 | 0.2117 | -07.706 | 024.36 | 008 | | | | | | | | | | | |
| -10.23 | -1.9719 | 05.066 | -1.7975 | 1.1434 | 0.8061 | 1.0149 | 0.0515 | -0.1593 | -0.0036 | 0.2088 | -07.774 | 024.38 | 009 | | | | | | | | | | | |
| -10.02 | -1.9239 | 04.951 | -1.7546 | 1.1267 | 0.8043 | 1.0138 | 0.0466 | -0.1016 | -0.0043 | 0.2095 | -07.818 | 024.42 | 010 | | | | | | | | | | | |
| -09.87 | -1.8900 | 04.868 | -1.7240 | 1.1174 | 0.8054 | 1.0122 | 0.0523 | -0.0902 | -0.0030 | 0.2077 | -07.825 | 024.45 | 011 | | | | | | | | | | | |
| -09.66 | -1.8640 | 04.782 | -1.6847 | 1.1034 | 0.8051 | 1.0131 | 0.0377 | -0.0765 | -0.0030 | 0.2080 | -07.770 | 024.44 | 012 | | | | | | | | | | | |
| -09.51 | -1.8019 | 34.708 | -1.6499 | 1.0938 | 0.8063 | 1.0144 | 0.0368 | -0.0635 | -0.0039 | 0.2080 | -07.912 | 024.46 | 013 | | | | | | | | | | | |
| -09.30 | -1.7673 | 04.658 | -1.6129 | 1.0866 | 0.8110 | 1.0181 | 0.0293 | -0.0677 | -0.0048 | 0.2062 | -08.007 | 024.42 | 014 | | | | | | | | | | | |
| -09.11 | -1.7213 | 04.557 | -1.5713 | 1.0724 | 0.8100 | 1.0162 | 0.0280 | -0.0516 | -0.0031 | 0.2062 | -08.079 | 024.42 | 015 | | | | | | | | | | | |
| -08.93 | -1.6748 | 04.496 | -1.5282 | 1.0640 | 0.8130 | 1.0186 | 0.0408 | -0.0905 | -0.0015 | 0.2048 | -08.156 | 024.42 | 016 | | | | | | | | | | | |
| -08.75 | -1.6418 | 04.423 | -1.4986 | 1.0536 | 0.8133 | 1.0173 | 0.0371 | -0.1251 | -0.0029 | 0.2061 | -08.186 | 024.45 | 017 | | | | | | | | | | | |
| -08.57 | -1.5988 | 04.329 | -1.4550 | 1.0398 | 0.8111 | 1.0155 | 0.0326 | -0.1164 | -0.0027 | 0.2044 | -024.51 | 018 | | | | | | | | | | | | |
| -08.37 | -1.5612 | 04.265 | -1.4261 | 1.0327 | 0.8141 | 1.0167 | 0.0318 | -0.0936 | -0.0049 | 0.2026 | -08.299 | 024.51 | 019 | | | | | | | | | | | |
| -08.19 | -1.5225 | 04.188 | -1.3924 | 1.0272 | 0.8184 | 1.0188 | 0.0275 | -0.0975 | -0.0034 | 0.2005 | -08.346 | 024.46 | 020 | | | | | | | | | | | |
| -08.06 | -1.4882 | 04.104 | -1.3593 | 1.0174 | 0.8174 | 1.0182 | 0.0304 | -0.1115 | -0.0045 | 0.2008 | -08.378 | 024.45 | 021 | | | | | | | | | | | |
| -07.86 | -1.4581 | 04.042 | -1.3322 | 1.0123 | 0.8207 | 1.0207 | 0.0260 | -0.0964 | -0.0031 | 0.2008 | -08.422 | 024.36 | 022 | | | | | | | | | | | |
| -07.65 | -1.4136 | 03.946 | -1.2922 | 0.9985 | 0.8175 | 1.0172 | 0.0316 | -0.0716 | -0.0031 | 0.1997 | -08.481 | 024.42 | 023 | | | | | | | | | | | |
| -07.48 | -1.3668 | 03.841 | -1.2504 | 0.9910 | 0.8198 | 1.0167 | 0.0375 | -0.0681 | -0.0062 | 0.1972 | -08.543 | 024.45 | 024 | | | | | | | | | | | |
| -07.31 | -1.3356 | 03.756 | -1.2202 | 0.9850 | 0.8217 | 1.0189 | 0.0299 | -0.0674 | -0.0040 | 0.1972 | -08.593 | 024.46 | 025 | | | | | | | | | | | |
| -07.14 | -1.3004 | 03.676 | -1.1877 | 0.9808 | 0.8256 | 1.0210 | 0.0325 | -0.0794 | -0.0030 | 0.1954 | -08.588 | 024.45 | 026 | | | | | | | | | | | |
| -06.97 | -1.2637 | 03.587 | -1.1545 | 0.9738 | 0.8236 | 1.0172 | 0.0317 | -0.0630 | -0.0047 | 0.1936 | -08.623 | 024.46 | 027 | | | | | | | | | | | |
| -06.79 | -1.2223 | 03.511 | -1.1210 | 0.9644 | 0.8250 | 1.0204 | 0.0274 | -0.0619 | -0.0033 | 0.1950 | -08.692 | 024.35 | 028 | | | | | | | | | | | |
| -06.60 | -1.1839 | 03.397 | -1.0809 | 0.9579 | 0.8273 | 1.0223 | 0.0198 | -0.0821 | -0.0024 | 0.1950 | -08.716 | 024.35 | 029 | | | | | | | | | | | |
| -06.45 | -1.1514 | 03.314 | -1.0542 | 0.9543 | 0.8262 | 1.0194 | 0.0294 | -0.1000 | -0.0014 | 0.1932 | -08.722 | 024.36 | 030 | | | | | | | | | | | |
| -06.28 | -1.1033 | 03.209 | -1.0110 | 0.9443 | 0.8280 | 1.0212 | 0.0248 | -0.0896 | -0.0025 | 0.1932 | -08.797 | 024.38 | 031 | | | | | | | | | | | |
| -06.11 | -1.0664 | 03.120 | -0.9745 | 0.9143 | 0.8252 | 1.0171 | 0.0274 | -0.0885 | -0.0018 | 0.1919 | -08.872 | 024.40 | 032 | | | | | | | | | | | |
| -05.89 | -1.0211 | 03.021 | -0.9346 | 0.8253 | 0.8250 | 1.0204 | 0.0289 | -0.0850 | -0.0006 | 0.1896 | -08.962 | 024.41 | 033 | | | | | | | | | | | |
| -05.77 | -0.9888 | 02.924 | -0.9016 | 0.9233 | 0.8280 | 1.0184 | 0.0204 | -0.0781 | -0.0010 | 0.1904 | -08.975 | 024.41 | 034 | | | | | | | | | | | |
| -05.56 | -0.9337 | 02.822 | -0.8691 | 0.9157 | 0.8272 | 1.0194 | 0.0283 | -0.1096 | -0.0008 | 0.1922 | -08.991 | 024.46 | 035 | | | | | | | | | | | |
| -05.37 | -0.9255 | 02.751 | -0.8477 | 0.9135 | 0.8280 | 1.0202 | 0.0275 | -0.0866 | -0.0013 | 0.1900 | -08.991 | 024.47 | 036 | | | | | | | | | | | |
| -05.19 | -0.8933 | 02.663 | -0.8205 | 0.9083 | 0.8303 | 1.0193 | 0.0200 | -0.0783 | -0.0004 | 0.1920 | -08.929 | 024.47 | 037 | | | | | | | | | | | |
| -05.01 | -0.8689 | 02.536 | -0.7936 | 0.9076 | 0.8349 | 1.0137 | 0.0264 | -0.0885 | -0.0004 | 0.1888 | -08.858 | 024.41 | 038 | | | | | | | | | | | |
| -04.85 | -0.8417 | 02.459 | -0.7678 | 0.8064 | 0.8382 | 1.0241 | 0.0229 | -0.0822 | -0.0018 | 0.1859 | -08.877 | 024.45 | 039 | | | | | | | | | | | |
| -04.64 | -0.8110 | 02.371 | -0.7404 | 0.9038 | 0.8410 | 1.0268 | 0.0204 | -0.0829 | -0.0022 | 0.1803 | -08.929 | 024.46 | 040 | | | | | | | | | | | |
| -04.46 | -0.7801 | 02.274 | -0.7123 | 0.9004 | 0.8424 | 1.0282 | 0.0327 | -0.0787 | -0.0017 | 0.1817 | -08.957 | 024.42 | 041 | | | | | | | | | | | |
| -04.27 | -0.7477 | 02.174 | -0.6828 | 0.8963 | 0.8429 | 1.0280 | 0.0280 | -0.1198 | -0.0013 | 0.1817 | -08.832 | 024.47 | 042 | | | | | | | | | | | |
| -04.09 | -0.7062 | 02.061 | -0.6661 | 0.8962 | 0.8460 | 1.0279 | 0.0184 | -0.0570 | -0.0006 | 0.1819 | -08.685 | 024.43 | 043 | | | | | | | | | | | |
| -03.88 | -0.6655 | 01.942 | -0.6404 | 0.8854 | 0.8426 | 1.0227 | 0.0215 | -0.0632 | -0.0002 | 0.1801 | -08.936 | 024.42 | 044 | | | | | | | | | | | |
| -03.72 | -0.6268 | 01.839 | -0.5708 | 0.8808 | 0.8419 | 1.0242 | 0.0316 | -0.0736 | -0.0006 | 0.1823 | -08.914 | 024.46 | 045 | | | | | | | | | | | |
| -03.52 | -0.5975 | 01.756 | -0.5448 | 0.8760 | 0.8410 | 1.0227 | 0.0212 | -0.0813 | -0.0010 | 0.1817 | -08.829 | 024.42 | 046 | | | | | | | | | | | |
| -03.34 | -0.5668 | 01.658 | -0.5169 | 0.8723 | 0.8407 | 1.0224 | 0.0276 | -0.0753 | -0.0012 | 0.1817 | -08.73 | 024.42 | 047 | | | | | | | | | | | |
| -03.16 | -0.5365 | 01.552 | -0.4872 | 0.8719 | 0.8437 | 1.0261 | 0.0414 | -0.1115 | -0.0021 | 0.1824 | -08.622 | 024.35 | 048 | | | | | | | | | | | |
| -02.99 | -0.5015 | 01.459 | -0.4462 | 0.8698 | 0.8445 | 1.0270 | 0.0275 | -0.0988 | -0.0002 | 0.1824 | -08.736 | 024.45 | 049 | | | | | | | | | | | |
| -02.81 | -0.4810 | 01.349 | -0.4392 | 0.8631 | 0.8405 | 1.0214 | 0.0214 | -0.0632 | -0.0004 | 0.1809 | -08.519 | 024.48 | 050 | | | | | | | | | | | |
| -02.61 | -0.4688 | 01.246 | -0.4102 | 0.8578 | 0.8382 | 1.0211 | 0.0207 | -0.1245 | -0.0012 | 0.1823 | -08.433 | 024.55 | 051 | | | | | | | | | | | |
| -02.46 | -0.4220 | 01.155 | -0.3865 | 0.8596 | 0.8422 | 1.0240 | 0.0309 | -0.1148 | -0.0014 | 0.1814 | -08.333 | 024.51 | 052 | | | | | | | | | | | |
| -02.28 | -0.3991 | 01.072 | -0.3555 | 0.8537 | 0.8389 | 1.0235 | 0.0271 | -0.0936 | -0.0003 | 0.1864 | -08.373 | 024.51 | 053 | | | | | | | | | | | |
| -02.10 | -0.3222 | 00.976 | -0.3211 | 0.8571 | 0.8448 | 1.0263 | 0.0135 | -0.0597 | -0.0022 | 0.1835 | -08.416 | 024.48 | 054 | | | | | | | | | | | |
| -01.95 | -0.3228 | 00.871 | -0.2939 | 0.8570 | 0.8466 | 1.0359 | 0.0137 | -0.0736 | -0.0007 | 0.1830 | -0.1844 | 024.48 | 055 | | | | | | | | | | | |
| -01.77 | -0.2888 | 00.783 | -0.2626 | 0.8550 | 0.8465 | 0.0296 | -0.0204 | -0.0647 | -0.0002 | 0.1830 | -08.205 | 024.35 | 056 | | | | | | | | | | | |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSWT TEST 89 | | | | | | | | | | | | | | | | | |
|---|---------|---------|---------|--------|---|--------|--------|---------|---------|---|---------|--------|-----|--------|---|---------|---------|--------|--------|--------|--------|---------|---------|--------|---------|--------|-----|
| RUN 002 MACH NO 1.244 RN/L 07456231 Q 1484 PSF TO 558 | | | | | RUN 002 MACH NO 1.244 RN/L 07456231 Q 1484 PSF TO 558 | | | | | RUN 002 MACH NO 1.244 RN/L 07456231 Q 1484 PSF TO 558 | | | | | RUN 002 MACH NO 1.244 RN/L 07456231 Q 1484 PSF TO 558 | | | | | | | | | | | | |
| COEFFICIENTS | | | | | | | | | | COEFFICIENTS | | | | | | | | | | | | | | | | | |
| ALPHA | Y | PM | L | D | A | AU | V | YM | RM | AB | CP | PO | PWT | ALPHA | Y | PM | L | D | A | | | | | | | | |
| -01.59 | -0.2661 | 00.711 | -0.2424 | 0.8549 | 0.8478 | 1.0298 | 0.0204 | -0.0500 | -0.0012 | 0.1820 | -0.111 | 024.35 | 057 | -01.62 | -0.2353 | 00.634 | -0.2143 | 0.8526 | 0.8470 | 1.0286 | 0.0175 | -0.0536 | -0.0017 | 0.1816 | -0.1116 | 024.35 | 058 |
| -01.62 | -0.2122 | 00.556 | -0.1937 | 0.8517 | 0.8473 | 1.0289 | 0.0313 | -0.1121 | -0.0036 | 0.1816 | -0.1116 | 024.35 | 059 | -01.54 | -0.1869 | 00.462 | -0.1695 | 0.8505 | 0.8473 | 1.0293 | 0.0213 | -0.1060 | -0.0011 | 0.1817 | -0.1117 | 024.35 | 060 |
| -00.84 | -0.1617 | 00.383 | -0.1492 | 0.8457 | 0.8436 | 1.0266 | 0.0263 | -0.1114 | -0.0013 | 0.1832 | -0.1114 | 024.45 | 061 | -00.69 | -0.1277 | 00.284 | -0.1175 | 0.8474 | 0.8459 | 1.0301 | 0.0315 | -0.0886 | -0.0018 | 0.1842 | -0.1157 | 024.45 | 062 |
| -00.52 | -0.1049 | 00.231 | -0.0972 | 0.8503 | 0.8494 | 1.0318 | 0.0318 | -0.0884 | -0.0012 | 0.1825 | -0.1125 | 024.45 | 063 | -00.34 | -0.0746 | 00.147 | -0.0695 | 0.8483 | 0.8478 | 1.0313 | 0.0349 | -0.0945 | -0.0015 | 0.1825 | -0.1125 | 024.45 | 064 |
| -00.17 | -0.0479 | 00.071 | -0.0454 | 0.8497 | 0.8496 | 1.0316 | 0.0233 | -0.0225 | -0.0016 | 0.1821 | -0.1121 | 024.45 | 065 | 00.31 | -0.3176 | 00.211 | -0.0178 | 0.8502 | 0.8502 | 1.0319 | 0.0282 | -0.1164 | -0.0012 | 0.1818 | -0.1122 | 024.51 | 066 |
| 00.19 | -0.0057 | -00.058 | -0.0274 | 0.8476 | 0.8476 | 1.0291 | 0.0349 | -0.217 | -0.0013 | 0.1825 | -0.1125 | 024.55 | 067 | 00.39 | -0.0332 | -00.134 | -0.0274 | 0.8473 | 0.8471 | 1.0299 | 0.0313 | -0.217 | -0.0016 | 0.1828 | -0.1127 | 024.51 | 068 |
| 00.54 | -0.0641 | -00.217 | 00.0561 | 0.8454 | 0.8449 | 1.0278 | 0.0242 | -0.1215 | -0.0021 | 0.1829 | -0.1126 | 024.61 | 069 | 00.73 | -0.2625 | -00.204 | 0.0561 | 0.8453 | 0.8449 | 1.0278 | 0.0307 | -0.1198 | -0.0026 | 0.1828 | -0.1126 | 024.65 | 070 |
| 00.90 | 0.1112 | -00.367 | -0.0978 | 0.8520 | 0.8507 | 1.0324 | 0.0324 | -0.038 | -0.0117 | 0.1820 | -0.1116 | 024.55 | 071 | 01.11 | -0.1431 | -00.432 | 0.1266 | 0.8552 | 0.8516 | 1.0345 | 0.0336 | -0.1113 | -0.0021 | 0.1829 | -0.1113 | 024.45 | 072 |
| 01.26 | -0.1749 | -00.509 | -0.2851 | 0.8560 | 0.8561 | 1.0290 | 0.0421 | -0.1050 | -0.0019 | 0.1829 | -0.1120 | 024.32 | 073 | 01.47 | -0.2107 | -00.618 | 0.1889 | 0.8546 | 0.8495 | 1.0324 | 0.0295 | -0.0890 | -0.0021 | 0.1829 | -0.1120 | 024.32 | 074 |
| 01.62 | -0.2382 | -00.695 | 0.2142 | 0.8564 | 0.8480 | 1.0313 | 0.0257 | -0.0815 | -0.0019 | 0.1833 | -0.1126 | 024.32 | 075 | 01.83 | -0.2625 | -00.753 | 0.2353 | 0.8558 | 0.8498 | 1.0316 | 0.0289 | -0.0806 | -0.0017 | 0.1815 | -0.1126 | 024.32 | 076 |
| 01.98 | -0.2865 | -00.827 | 0.2571 | 0.8558 | 0.8464 | 1.0286 | 0.0357 | -0.1146 | -0.0009 | 0.1826 | -0.1126 | 024.29 | 077 | 02.16 | -0.3127 | -00.918 | 0.2851 | 0.8605 | 0.8691 | 1.0321 | 0.0421 | -0.1050 | -0.0019 | 0.1819 | -0.1127 | 024.32 | 078 |
| 02.33 | -0.3451 | -01.011 | 0.3104 | 0.8614 | 0.8614 | 1.0481 | 0.0481 | -0.0446 | -0.0030 | 0.1826 | -0.1126 | 024.32 | 079 | 02.53 | -0.3770 | -01.111 | 0.3393 | 0.8600 | 0.8642 | 1.0243 | 0.0349 | -0.1256 | -0.0020 | 0.1827 | -0.1126 | 024.35 | 080 |
| 02.70 | -0.3975 | -01.175 | 0.3573 | 0.8616 | 0.8616 | 1.0440 | 0.0245 | -0.0369 | -0.0025 | 0.1825 | -0.1123 | 024.32 | 081 | 02.88 | -0.4395 | -01.268 | 0.3965 | 0.8648 | 0.8598 | 1.0316 | 0.0289 | -0.1146 | -0.0017 | 0.1815 | -0.1126 | 024.32 | 082 |
| 03.05 | -0.4683 | -01.310 | 0.4229 | 0.8635 | 0.8635 | 1.0215 | 0.0316 | -0.1146 | -0.0009 | 0.1826 | -0.1126 | 024.29 | 083 | 03.23 | -0.5063 | -01.473 | 0.4581 | 0.8683 | 0.8613 | 1.0231 | 0.0298 | -0.1282 | -0.0013 | 0.1818 | -0.1128 | 024.32 | 084 |
| 03.41 | -0.5375 | -01.569 | 0.4865 | 0.8719 | 0.8719 | 1.0414 | 0.0442 | -0.0365 | -0.0014 | 0.1826 | -0.1126 | 024.32 | 085 | 03.58 | -0.5693 | -01.634 | 0.5155 | 0.8768 | 0.8628 | 1.0249 | 0.0292 | -0.1196 | -0.0019 | 0.1821 | -0.1126 | 024.32 | 086 |
| 03.76 | -0.5975 | -01.721 | 0.5411 | 0.8793 | 0.8620 | 1.0443 | 0.0287 | -0.0975 | -0.0015 | 0.1824 | -0.1124 | 024.32 | 087 | 03.93 | -0.6310 | -01.721 | 0.5717 | 0.8858 | 0.8445 | 1.0264 | 0.0266 | -0.1242 | -0.0014 | 0.1824 | -0.1124 | 024.32 | 088 |
| 04.11 | -0.6615 | -01.915 | 0.5995 | 0.8875 | 0.8397 | 1.0215 | 0.0316 | -0.1148 | -0.0018 | 0.1826 | -0.1126 | 024.29 | 089 | 04.31 | -0.6978 | -02.018 | 0.6324 | 0.8848 | 0.8448 | 1.0267 | 0.0280 | -0.1091 | -0.0026 | 0.1826 | -0.1126 | 024.32 | 090 |
| 04.49 | -0.7216 | -02.094 | 0.6535 | 0.9008 | 0.8666 | 1.0427 | 0.0442 | -0.0228 | -0.0018 | 0.1826 | -0.1126 | 024.32 | 091 | 04.65 | -0.7612 | -02.210 | 0.6905 | 0.9345 | 0.9345 | 1.0253 | 0.0324 | -0.1274 | -0.0018 | 0.1824 | -0.1126 | 024.32 | 092 |
| 04.83 | -0.7950 | -02.301 | 0.7212 | 0.9078 | 0.8639 | 1.0279 | 0.0306 | -0.1203 | -0.0018 | 0.1824 | -0.1124 | 024.32 | 093 | 05.01 | -0.8300 | -02.392 | 0.7532 | 0.9382 | 0.9457 | 1.0266 | 0.0255 | -0.1056 | -0.0012 | 0.1824 | -0.1124 | 024.32 | 094 |
| 05.19 | -0.8667 | -02.503 | 0.7872 | 0.9146 | 0.8397 | 1.0240 | 0.0284 | -0.1171 | -0.0018 | 0.1826 | -0.1126 | 024.29 | 095 | 05.37 | -0.9011 | -02.608 | 0.8125 | 0.9241 | 0.8634 | 1.0263 | 0.0260 | -0.1033 | -0.0023 | 0.1826 | -0.1126 | 024.32 | 096 |
| 05.55 | -0.9340 | -02.696 | 0.8482 | 0.9279 | 0.8414 | 1.0260 | 0.0261 | -0.0255 | -0.0017 | 0.1826 | -0.1126 | 024.32 | 097 | 05.76 | -0.9638 | -02.775 | 0.8746 | 0.9345 | 0.9345 | 1.0267 | 0.0311 | -0.1058 | -0.0009 | 0.1826 | -0.1126 | 024.32 | 098 |
| 05.92 | -1.0048 | -02.868 | 0.9125 | 0.9422 | 0.8531 | 1.0292 | 0.0268 | -0.0972 | -0.0017 | 0.1824 | -0.1124 | 024.32 | 099 | 06.10 | -1.0334 | -02.987 | 0.9532 | 0.9806 | 0.9457 | 1.0276 | 0.0223 | -0.0809 | -0.0013 | 0.1824 | -0.1124 | 024.32 | 100 |
| 06.31 | -1.0737 | -03.085 | 0.9749 | 0.9529 | 0.8600 | 1.0284 | 0.0286 | -0.033 | -0.0018 | 0.1826 | -0.1126 | 024.29 | 101 | 06.49 | -1.1147 | -03.178 | 1.0125 | 0.9610 | 0.9403 | 1.0270 | 0.0169 | -0.0842 | -0.0006 | 0.1826 | -0.1126 | 024.32 | 102 |
| 06.67 | -1.1459 | -03.254 | 1.0125 | 0.9814 | 0.9675 | 1.0280 | 0.0280 | -0.0228 | -0.0017 | 0.1826 | -0.1126 | 024.32 | 103 | 07.22 | -1.2076 | -03.575 | 1.1545 | 0.9965 | 0.9617 | 1.0306 | 0.0221 | -0.0939 | -0.0005 | 0.1826 | -0.1126 | 024.32 | 104 |
| 07.40 | -1.3100 | -03.679 | 1.1903 | 1.0064 | 0.8647 | 1.0340 | 0.0193 | -0.0809 | -0.0002 | 0.1826 | -0.1126 | 024.32 | 105 | 07.50 | -1.3100 | -03.679 | 1.1903 | 1.0064 | 0.8647 | 1.0340 | 0.0193 | -0.0809 | -0.0002 | 0.1826 | -0.1126 | 024.32 | 107 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | | | HSWT TEST 89 | | | | | | | | | | | | |
|--|---------|---------|--------------|--------|--------|--------|--------|----------|---------|--------|---------|--------------|-----|--|----------|--|--|--|--|--|--|--|--|--|
| RUN 002 MACH NO 1.244 RNL 07456231 Q 1464 PSF TO 558 | | | COEFFICIENTS | | | | | | | | | | | | 10/17/62 | | | | | | | | | |
| ALPHA | N | PN | L | D | A | AU | V | VM | RW | AB | CP | PO | PT | | | | | | | | | | | |
| 07.56 | 1.3456 | -03.752 | 1.2231 | 1.0118 | 0.8421 | 1.0305 | 0.0217 | -0.0641 | -0.0006 | 0.1884 | -06.672 | 024.42 | 108 | | | | | | | | | | | |
| 07.77 | 1.3748 | -03.607 | 1.2484 | 1.0192 | 0.8410 | 1.0301 | 0.0277 | -0.0616 | -0.0003 | 0.1891 | -06.412 | 024.45 | 109 | | | | | | | | | | | |
| 07.96 | 1.4137 | -03.505 | 1.2839 | 1.0273 | 0.8397 | 1.0288 | 0.0233 | -0.06460 | -0.0010 | 0.1891 | -06.392 | 024.45 | 110 | | | | | | | | | | | |
| 08.13 | 1.4440 | -04.009 | 1.3098 | 1.0414 | 0.8456 | 1.0345 | 0.0156 | -0.02460 | 0.0009 | 0.1900 | -06.434 | 024.35 | 111 | | | | | | | | | | | |
| 08.32 | 1.4836 | -04.112 | 1.3465 | 1.0456 | 0.8498 | 1.0327 | 0.0182 | -0.0215 | 0.0009 | 0.1929 | -06.421 | 024.29 | 112 | | | | | | | | | | | |
| 08.50 | 1.5287 | -04.204 | 1.3876 | 1.0573 | 0.8806 | 1.0324 | 0.0069 | -0.0071 | 0.0010 | 0.1918 | -06.355 | 024.19 | 113 | | | | | | | | | | | |
| 08.69 | 1.5610 | -04.263 | 1.4159 | 1.0686 | 0.8425 | 1.0325 | 0.0133 | 0.0019 | 0.0009 | 0.1900 | -06.258 | 024.16 | 114 | | | | | | | | | | | |
| 08.87 | 1.6075 | -04.340 | 1.4584 | 1.0866 | 0.8424 | 1.0328 | 0.0088 | 0.0107 | 0.0001 | 0.1904 | -06.202 | 024.16 | 115 | | | | | | | | | | | |
| 09.03 | 1.6481 | -04.332 | 1.4961 | 1.0946 | 0.8384 | 1.0300 | 0.0112 | 0.0060 | 0.0005 | 0.1916 | -06.170 | 024.19 | 116 | | | | | | | | | | | |
| 09.16 | 1.6816 | -04.510 | 1.5269 | 1.0946 | 0.8376 | 1.0299 | 0.0075 | -0.0220 | 0.0001 | 0.1923 | -06.148 | 024.22 | 117 | | | | | | | | | | | |
| 09.31 | 1.7185 | -04.587 | 1.5603 | 1.1043 | 0.8372 | 1.0288 | 0.0135 | -0.0263 | 0.0000 | 0.1916 | -06.109 | 024.26 | 118 | | | | | | | | | | | |
| 09.45 | 1.7499 | -04.667 | 1.59886 | 1.1139 | 0.8380 | 1.0306 | 0.0160 | -0.0191 | 0.0001 | 0.1926 | -06.056 | 024.26 | 119 | | | | | | | | | | | |
| 09.58 | 1.7910 | -04.701 | 1.6265 | 1.1246 | 0.8382 | 1.0311 | 0.0122 | 0.0183 | -0.0003 | 0.1939 | -06.975 | 024.29 | 120 | | | | | | | | | | | |
| 09.69 | 1.8076 | -04.837 | 1.6412 | 1.1283 | 0.8361 | 1.0302 | 0.0186 | -0.0056 | 0.0017 | 0.1900 | -06.965 | 024.32 | 121 | | | | | | | | | | | |
| 09.79 | 1.8482 | -04.837 | 1.6785 | 1.1419 | 0.8398 | 1.0335 | 0.0110 | -0.0358 | 0.0003 | 0.1936 | -07.950 | 024.26 | 122 | | | | | | | | | | | |
| 09.87 | 1.8628 | -04.851 | 1.6919 | 1.1433 | 0.8363 | 1.0300 | 0.0104 | 0.0205 | 0.0003 | 0.1937 | -07.12 | 024.35 | 123 | | | | | | | | | | | |
| 09.95 | 1.8893 | -04.999 | 1.7163 | 1.1503 | 0.8364 | 1.0301 | 0.0169 | -0.0610 | 0.0003 | 0.1937 | -07.877 | 024.42 | 124 | | | | | | | | | | | |
| 10.03 | 1.9075 | -04.917 | 1.7328 | 1.1567 | 0.8352 | 1.0308 | 0.0129 | -0.0326 | 0.0003 | 0.1936 | -07.832 | 024.42 | 125 | | | | | | | | | | | |
| 10.08 | 1.9112 | -04.919 | 1.7363 | 1.1521 | 0.8302 | 1.0269 | 0.0161 | -0.0556 | 0.0004 | 0.1967 | -07.819 | 024.51 | 126 | | | | | | | | | | | |
| 10.22 | 1.9358 | -04.991 | 1.7574 | 1.1629 | 0.8328 | 1.0302 | 0.0154 | -0.0299 | 0.0004 | 0.1914 | -06.817 | 024.55 | 127 | | | | | | | | | | | |
| 10.35 | 1.9600 | -05.026 | 1.7776 | 1.1760 | 0.8375 | 1.0344 | 0.0063 | 0.0262 | -0.0003 | 0.1969 | -07.790 | 024.45 | 128 | | | | | | | | | | | |
| 10.49 | 1.9938 | -05.092 | 1.8081 | 1.1862 | 0.8373 | 1.0349 | 0.0040 | -0.0016 | 0.0004 | 0.1916 | -07.758 | 024.42 | 129 | | | | | | | | | | | |
| 10.57 | 2.0157 | -05.138 | 1.8269 | 1.1987 | 0.8333 | 1.0372 | 0.0071 | -0.0005 | 0.0014 | 0.1939 | -07.743 | 024.35 | 130 | | | | | | | | | | | |
| 10.62 | 2.0263 | -05.158 | 1.8368 | 1.1993 | 0.8302 | 1.0331 | 0.0066 | 0.0293 | -0.0003 | 0.1929 | -07.736 | 024.35 | 131 | | | | | | | | | | | |
| 10.67 | 2.0301 | -05.163 | 1.8400 | 1.1985 | 0.8361 | 1.0314 | 0.0061 | 0.0367 | 0.0001 | 0.1944 | -07.727 | 024.38 | 132 | | | | | | | | | | | |
| 10.68 | 2.0398 | -05.172 | 1.8505 | 1.1949 | 0.8314 | 1.0287 | 0.0087 | 0.0666 | 0.0004 | 0.1913 | -07.703 | 024.45 | 133 | | | | | | | | | | | |
| 10.70 | 2.0596 | -05.211 | 1.8675 | 1.2079 | 0.8400 | 1.0343 | 0.0014 | 0.0509 | 0.0005 | 0.1943 | -07.687 | 024.42 | 134 | | | | | | | | | | | |
| 10.73 | 2.0663 | -05.212 | 1.8726 | 1.2051 | 0.8363 | 1.0330 | 0.0022 | 0.0370 | 0.0007 | 0.1968 | -01.612 | 024.42 | 135 | | | | | | | | | | | |
| 10.73 | 2.0663 | -05.216 | 1.8740 | 1.2083 | 0.8382 | 1.0358 | 0.0053 | 0.0451 | 0.0005 | 0.1976 | -07.669 | 024.42 | 136 | | | | | | | | | | | |
| 10.73 | -0.0062 | -00.025 | -0.0056 | 0.8513 | 0.8513 | 1.0276 | 0.0210 | -0.0677 | -0.0012 | 0.1783 | 17.263 | 024.32 | 137 | | | | | | | | | | | |
| -30.32 | -0.0024 | -00.351 | -0.0322 | 0.8471 | 0.8471 | 1.0247 | 0.0347 | -0.0791 | -0.0030 | 0.1776 | 64.373 | 024.45 | 138 | | | | | | | | | | | |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSWT TEST 89 | | | | | |
|--|---------|----------------|---------|--------|--------|----------------|---------|----------------|----------------|--------------|---------|----------------|----------------|----------------|--|
| RUN 003 MACH NO 1.243 RWL 07052099 Q 1477 PSF TD 580 | | | | | | | | | | 10/17/62 | | | | | |
| COEFFICIENTS | | | | | | | | | | | | | | | |
| ALPHA | N | P _H | L | D | A | A _U | V | Y _M | R _M | AB | CP | P _O | P _T | P _N | |
| 00.19 | 0.0339 | -30.127 | 0.0311 | 0.8435 | 0.8434 | 1.0379 | 0.0314 | -0.1226 | 0.1018 | 0.1945 | -11.423 | 024.32 | 005 | | |
| 00.19 | 0.0342 | -30.144 | 0.0314 | 0.8428 | 0.8426 | 1.0376 | 0.0246 | -0.1236 | 0.0813 | 0.1949 | -12.785 | 024.32 | 006 | | |
| -10.84 | -2.0920 | 35.290 | -1.9315 | 1.1931 | 0.9143 | 1.0268 | -0.0014 | -0.1793 | 0.1954 | 0.2125 | -0.7668 | 024.45 | 007 | | |
| -10.53 | -2.0174 | 05.170 | -1.8331 | 1.1777 | 0.8230 | 1.0357 | 0.0010 | 0.1741 | 0.1969 | 0.2126 | -0.7705 | 024.45 | 008 | | |
| -10.16 | -1.9531 | 05.092 | -1.7773 | 1.1545 | 0.8229 | 1.0345 | 0.0068 | 0.1418 | 0.1966 | 0.2116 | -0.7720 | 024.35 | 009 | | |
| -09.80 | -1.8457 | 34.864 | -1.6777 | 1.1307 | 0.8287 | 1.0396 | -0.0019 | 0.1308 | 0.1968 | 0.2109 | -0.7913 | 024.38 | 010 | | |
| -39.44 | -1.7804 | 04.701 | -1.6207 | 1.1013 | 0.8265 | 1.0356 | 0.0004 | 0.1196 | 0.1989 | 0.2091 | -0.8022 | 024.42 | 011 | | |
| -09.08 | -1.6813 | 04.510 | -1.5292 | 1.0855 | 0.8306 | 1.0393 | -0.0053 | 0.1446 | 0.1982 | 0.2087 | -0.8149 | 024.42 | 012 | | |
| -06.72 | -1.6147 | 04.412 | -1.4697 | 1.0691 | 0.8341 | 1.0411 | 0.0035 | 0.1278 | 0.2017 | 0.2076 | -0.8230 | 024.32 | 013 | | |
| -08.33 | -1.5152 | 04.199 | -1.3776 | 1.0500 | 0.8394 | 1.0452 | -0.0058 | 0.1606 | 0.1992 | 0.2058 | -0.8419 | 024.26 | 014 | | |
| -37.97 | -1.4663 | 04.125 | -1.3347 | 1.0264 | 0.8334 | 1.0382 | -0.0005 | 0.1269 | 0.1998 | 0.2048 | -0.8559 | 024.26 | 015 | | |
| -07.62 | -1.3545 | 03.951 | -1.2316 | 1.0087 | 0.8365 | 1.0384 | -0.0150 | 0.1154 | 0.2004 | 0.2019 | -0.8637 | 024.26 | 016 | | |
| -07.28 | -1.3015 | 03.020 | -1.1847 | 0.9970 | 0.8389 | 1.0412 | -0.0061 | 0.1208 | 0.2013 | 0.2022 | -0.8662 | 024.22 | 017 | | |
| -06.93 | -1.2111 | 03.486 | -1.1003 | 0.9849 | 0.8467 | 1.0437 | -0.0064 | 0.1066 | 0.2006 | 0.1990 | -0.8738 | 024.16 | 018 | | |
| -06.57 | -1.1377 | 03.133 | -1.0533 | 0.9733 | 0.8478 | 1.0461 | 0.0015 | 0.0655 | 0.2021 | 0.1982 | -0.8867 | 024.13 | 019 | | |
| -06.22 | -1.0636 | 03.142 | -0.9654 | 0.9517 | 0.8484 | 1.0446 | -0.0002 | 0.0835 | 0.2021 | 0.1962 | -0.8975 | 024.19 | 020 | | |
| -05.86 | -0.9781 | 02.939 | -0.8868 | 0.9399 | 0.8445 | 1.0389 | -0.0122 | 0.0458 | 0.2031 | 0.1944 | -0.9129 | 024.35 | 021 | | |
| -05.50 | -0.9132 | 02.448 | -0.8275 | 0.8518 | 0.8518 | 1.0443 | 0.0037 | 0.0548 | 0.2024 | 0.1905 | -0.9143 | 024.42 | 022 | | |
| -05.13 | -0.8547 | 02.577 | -0.7747 | 0.9297 | 0.8567 | 1.0473 | 0.0034 | 0.0302 | 0.2025 | 0.1905 | -0.9158 | 024.32 | 023 | | |
| -04.82 | -0.7881 | 02.258 | -0.7131 | 0.9227 | 0.8596 | 1.0491 | 0.0068 | 0.0115 | 0.2034 | 0.1895 | -0.9080 | 024.32 | 024 | | |
| -04.39 | -0.7177 | 02.154 | -0.6504 | 0.9050 | 0.8535 | 1.0461 | 0.0032 | 0.0077 | 0.2009 | 0.1863 | -0.9119 | 024.35 | 025 | | |
| -04.02 | -0.6523 | 01.971 | -0.5904 | 0.9029 | 0.8592 | 1.0451 | 0.0097 | 0.0055 | 0.2003 | 0.1859 | -0.9180 | 024.35 | 026 | | |
| -03.66 | -0.5957 | 01.023 | -0.5398 | 0.8927 | 0.8564 | 1.0423 | 0.0235 | -0.0521 | 0.2008 | 0.1859 | -0.9295 | 024.29 | 027 | | |
| -03.31 | -0.5215 | 01.356 | -0.4710 | 0.8880 | 0.8593 | 1.0441 | 0.0132 | -0.0581 | 0.1973 | 0.1868 | -0.9063 | 024.32 | 028 | | |
| -02.98 | -0.4779 | 01.382 | -0.4326 | 0.8823 | 0.8586 | 1.0466 | 0.0203 | -0.0838 | 0.1982 | 0.1862 | -0.9077 | 024.32 | 029 | | |
| -02.57 | -0.4195 | 01.266 | -0.3807 | 0.8745 | 0.8566 | 1.0432 | 0.0197 | -0.0676 | 0.1947 | 0.1866 | -0.8880 | 024.38 | 030 | | |
| -02.24 | -0.3546 | 01.060 | -0.3210 | 0.8733 | 0.8591 | 1.0399 | 0.0132 | 0.0077 | 0.2009 | 0.1869 | -0.9077 | 024.35 | 031 | | |
| -01.90 | -0.3017 | 00.923 | -0.2731 | 0.8615 | 0.8580 | 1.0429 | 0.0124 | 0.0072 | 0.1890 | 0.1864 | -0.9297 | 024.35 | 032 | | |
| -01.55 | -0.2431 | 00.735 | -0.2197 | 0.8674 | 0.8612 | 1.0464 | 0.0157 | -0.1057 | 0.1861 | 0.1852 | -0.9185 | 024.45 | 033 | | |
| -01.18 | -0.1869 | 00.553 | -0.1692 | 0.8663 | 0.8663 | 1.0469 | 0.0155 | -0.0971 | 0.1846 | 0.1844 | -0.9094 | 024.32 | 034 | | |
| -00.83 | -0.1404 | 00.306 | -0.0979 | 0.8654 | 0.8639 | 1.0463 | 0.0291 | -0.1141 | 0.1816 | 0.1826 | -0.9131 | 024.22 | 035 | | |
| -00.48 | -0.0880 | 00.183 | -0.0608 | 0.8653 | 0.8459 | 1.0428 | 0.0358 | -0.1260 | 0.1800 | 0.1830 | -0.8682 | 024.22 | 036 | | |
| -00.13 | -0.0176 | 00.044 | -0.0154 | 0.8615 | 0.8618 | 1.0473 | 0.0164 | -0.1268 | 0.1795 | 0.1855 | -0.7634 | 024.35 | 037 | | |
| 00.57 | 0.1039 | -00.442 | -0.0954 | 0.8615 | 0.8615 | 1.0446 | 0.0240 | -0.1141 | 0.1877 | 0.1870 | -0.7344 | 024.42 | 039 | | |
| 00.93 | 0.1518 | -00.484 | 0.1378 | 0.8636 | 0.8613 | 1.0455 | 0.0203 | -0.0995 | 0.1803 | 0.1842 | -0.6881 | 024.29 | 040 | | |
| 01.31 | 0.2112 | -00.655 | 0.1914 | 0.8677 | 0.8631 | 1.0462 | 0.0302 | -0.0961 | 0.1812 | 0.1832 | -0.6424 | 024.22 | 041 | | |
| 01.44 | 0.2949 | -00.889 | 0.2700 | 0.8717 | 0.8636 | 1.0442 | 0.0196 | -0.1173 | 0.1829 | 0.1819 | -0.6154 | 024.19 | 042 | | |
| 02.00 | 0.3453 | -01.024 | 0.3149 | 0.8743 | 0.8627 | 1.0446 | 0.0227 | -0.1220 | 0.1845 | 0.1819 | -0.612 | 024.22 | 043 | | |
| 02.38 | 0.3757 | -01.113 | 0.3398 | 0.8722 | 0.8573 | 1.0410 | 0.0188 | -0.0924 | 0.1876 | 0.1836 | -0.5908 | 024.35 | 044 | | |
| 02.73 | 0.4514 | -01.331 | 0.4099 | 0.8804 | 0.8599 | 1.0414 | 0.0184 | -0.1046 | 0.1877 | 0.1841 | -0.5411 | 024.42 | 045 | | |
| 03.06 | 0.5157 | -01.504 | 0.4685 | 0.8899 | 0.8633 | 1.0467 | 0.0287 | -0.1445 | 0.1923 | 0.1813 | -0.5857 | 024.29 | 046 | | |
| 03.43 | 0.5755 | -0.675 | 0.5229 | 0.8931 | 0.8602 | 1.0402 | 0.0319 | -0.639 | 0.1938 | 0.1800 | -0.6442 | 024.26 | 047 | | |
| 04.13 | 0.7104 | -02.067 | 0.6464 | 0.9119 | 0.8629 | 1.0448 | 0.0310 | -0.1874 | 0.1968 | 0.1819 | -0.6837 | 024.38 | 049 | | |
| 04.46 | 0.7726 | -02.265 | 0.7036 | 0.9145 | 0.8590 | 1.0427 | 0.0306 | -0.1920 | 0.1960 | 0.1836 | -0.7462 | 024.42 | 050 | | |
| 04.85 | 0.8297 | -02.425 | 0.7542 | 0.9234 | 0.8563 | 1.0399 | 0.0339 | -0.2049 | 0.1975 | 0.1836 | -0.8080 | 024.35 | 051 | | |
| 05.22 | 0.9111 | -02.553 | 0.8294 | 0.9295 | 0.8572 | 1.0416 | 0.0434 | -0.2287 | 0.1985 | 0.1844 | -0.8645 | 024.38 | 052 | | |
| 05.55 | 0.9751 | -02.861 | 0.8873 | 0.9209 | 0.8606 | 1.0457 | 0.0655 | -0.2389 | 0.1986 | 0.1851 | -0.8852 | 024.35 | 053 | | |
| 05.95 | 1.0279 | -02.975 | 0.9334 | 0.9610 | 0.8591 | 1.0492 | 0.0439 | -0.2215 | 0.1990 | 0.1901 | -0.8674 | 024.38 | 054 | | |
| 06.31 | 1.1101 | -03.208 | 1.0090 | 0.9756 | 0.8588 | 1.0499 | 0.0365 | -0.2390 | 0.1989 | 0.1911 | -0.8779 | 024.38 | 055 | | |
| 06.68 | 1.1651 | -03.246 | 1.0574 | 0.9882 | 0.8586 | 1.0498 | 0.0456 | -0.2370 | 0.1990 | 0.1910 | -0.8724 | 024.29 | 056 | | |
| 07.04 | 1.2501 | -03.254 | 1.1349 | 1.0094 | 0.9523 | 1.0527 | 0.0423 | -0.2618 | 0.2003 | 0.1896 | -0.8638 | 024.22 | 057 | | |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 69 | | | | | | | | | | | |
|--|--------|----------|--------|--------|--------|--------|--------|---------|--------|--------|---------|
| HSWT TEST 69 | | | | | | | | | | | |
| RUN 003 MACH NO 1.243 RNL 07052099 Q 1477 PSF TO 580 | | | | | | | | | | | |
| 10/11/62 | | | | | | | | | | | |
| COEFFICIENTS | | | | | | | | | | | |
| ALPHA | N | PW | L | D | A | AU | V | YM | RW | AB | CP |
| 07.4 | 1.3160 | -03.7224 | 1.1941 | 1.0231 | 0.8606 | 1.0216 | 0.0369 | -0.2518 | 0.1993 | 0.1910 | -08.597 |
| 07.8 | 1.3899 | -03.894 | 1.2600 | 1.0618 | 0.8611 | 1.0518 | 0.0382 | -0.2262 | 0.1998 | 0.1906 | -08.512 |
| 08.1 | 1.4901 | -0.093 | 1.3532 | 1.0596 | 0.8565 | 1.0522 | 0.0397 | -0.2855 | 0.1994 | 0.1958 | -08.345 |
| 08.5 | 1.5697 | -06.250 | 1.4262 | 1.0748 | 0.8517 | 1.0648 | 0.0442 | -0.2662 | 0.1988 | 0.1951 | -08.225 |
| 08.8 | 1.6224 | -06.444 | 1.4748 | 1.0977 | 0.8571 | 1.0811 | 0.0422 | -0.2541 | 0.1980 | 0.1940 | -08.300 |
| 09.1 | 1.7012 | -0.622 | 1.5427 | 1.1165 | 0.8559 | 1.0935 | 0.0336 | -0.2248 | 0.1975 | 0.1947 | -08.254 |
| 09.4 | 1.7721 | -04.782 | 1.6075 | 1.1354 | 0.8561 | 1.0519 | 0.0355 | -0.2555 | 0.1959 | 0.1958 | -08.199 |
| 09.7 | 1.8167 | -04.853 | 1.6464 | 1.1493 | 0.8551 | 1.0493 | 0.0413 | -0.2609 | 0.1956 | 0.1942 | -08.116 |
| 09.9 | 1.8500 | -04.920 | 1.6756 | 1.1598 | 0.8546 | 1.0481 | 0.0339 | -0.2756 | 0.1962 | 0.1935 | -08.079 |
| 10.0 | 1.9026 | -25.000 | 1.7244 | 1.1751 | 0.8567 | 1.0509 | 0.0370 | -0.3317 | 0.1966 | 0.1962 | -07.983 |
| 10.2 | 1.9356 | -05.081 | 1.7527 | 1.1872 | 0.8575 | 1.0500 | 0.0325 | -0.3034 | 0.1969 | 0.1925 | -07.976 |
| 10.4 | 1.9996 | -05.188 | 1.8045 | 1.2043 | 0.8558 | 1.0593 | 0.0312 | -0.3074 | 0.1959 | 0.1935 | -07.906 |
| 10.6 | 2.0220 | -05.230 | 1.8337 | 1.2080 | 0.8492 | 1.0558 | 0.0296 | -0.2813 | 0.1966 | 0.1966 | -07.846 |
| 10.8 | 2.0196 | -03.216 | 1.8276 | 1.2061 | 0.8467 | 1.0492 | 0.0326 | -0.2518 | 0.1941 | 0.1966 | -07.848 |
| 10.7 | 2.0592 | -05.270 | 1.8595 | 1.2204 | 0.8528 | 1.0492 | 0.0360 | -0.3077 | 0.1956 | 0.1965 | -07.794 |
| 00.0 | 0.0221 | -00.131 | 0.0213 | 0.0627 | 0.8626 | 1.0421 | 0.0354 | -0.1518 | 0.1798 | 0.1795 | -17.518 |
| 00.0 | 0.0105 | -00.099 | 0.0092 | 0.0619 | 0.8619 | 1.0411 | 0.0248 | -0.1169 | 0.1784 | 0.1792 | -28.599 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSMT TEST 89 | | | | | | | | | |
|--|---------|--------------|---------|--------|----------|--------|---------|---------|--------|--------------|---------|---------|-------|--|--|--|--|--|--|
| RUN 004 MACH NO 1.016 RNL 07407903 Q 1422 PSF TO 583 | | | | | 10/17/62 | | | | | | | | | | | | | | |
| ALPHA | N | COEFFICIENTS | | | | Y | YM | RM | AB | CP | P0 | PNT | | | | | | | |
| | | L | D | A | U | | | | | | | | | | | | | | |
| 20.18 | 0.2613 | -0.011 | 0.0385 | 0.8946 | 0.8944 | 1.0616 | 0.0250 | -0.0933 | 0.1929 | 0.1672 | -0.889 | 0.2638 | 0.006 | | | | | | |
| -38.90 | -1.7228 | 05.454 | -1.5637 | 1.500 | 0.8942 | 1.0814 | 0.0164 | -0.0698 | 0.1879 | 0.1871 | -0.617 | 0.0222 | 0.000 | | | | | | |
| -11.12 | -2.1921 | 06.582 | -1.9789 | 0.8980 | 0.8921 | 1.0931 | -0.0182 | 0.2488 | 0.2216 | 0.2011 | -0.121 | 0.02625 | 0.008 | | | | | | |
| -11.11 | -2.2099 | 06.653 | 1.9958 | 1.3050 | 0.8959 | 1.0987 | -0.0254 | 0.2813 | 0.2217 | 0.2028 | 0.146 | 0.02641 | 0.009 | | | | | | |
| -10.74 | -2.1106 | 06.346 | -1.9366 | 1.2750 | 0.8975 | 1.0933 | -0.0144 | 0.2244 | 0.2212 | 0.1997 | -0.135 | 0.02554 | 0.010 | | | | | | |
| -39.55 | -1.8160 | 05.781 | -1.6605 | 1.9697 | 0.9046 | 1.0966 | -0.0098 | 0.1967 | 0.2224 | 0.1950 | -0.566 | 0.02638 | 0.11 | | | | | | |
| -38.12 | -1.4919 | 05.003 | -1.3558 | 1.1162 | 0.9136 | 1.1037 | -0.0066 | 0.1210 | 0.2228 | 0.1900 | -0.140 | 0.02629 | 0.012 | | | | | | |
| -36.62 | -1.1561 | 04.080 | -1.0631 | 1.0397 | 0.9124 | 1.0969 | -0.0089 | 0.0506 | 0.2197 | 0.1824 | -0.721 | 0.0225 | 0.013 | | | | | | |
| -35.05 | -0.8065 | 03.083 | -0.7230 | 0.9837 | 0.9132 | 1.0866 | -0.0122 | 0.0347 | 0.2084 | 0.1756 | -1.601 | 0.02619 | 0.014 | | | | | | |
| -33.31 | -0.4912 | 32.088 | -0.4377 | 0.9396 | 0.9127 | 1.0767 | -0.0100 | 0.0360 | 0.2135 | 0.1640 | -1.912 | 0.02655 | 0.015 | | | | | | |
| -31.59 | -0.1779 | 01.061 | -0.1524 | 0.9174 | 0.9129 | 1.0762 | -0.0231 | 0.0593 | 0.2010 | 0.1634 | -1.131 | 0.02332 | 0.016 | | | | | | |
| -30.46 | 0.0223 | 00.341 | 0.0296 | 0.9141 | 0.9143 | 1.0766 | 0.0226 | -0.0513 | 0.1923 | 0.1623 | 0.1519 | 0.02635 | 0.017 | | | | | | |
| -30.35 | 0.3632 | 00.079 | 0.0640 | 0.9102 | 0.9102 | 1.0746 | -0.0203 | -0.1082 | 0.1644 | 0.1786 | -0.766 | 0.02629 | 0.018 | | | | | | |
| 30.14 | 0.2669 | -0.079 | 0.0627 | 0.9097 | 0.9095 | 1.0728 | 0.0389 | -0.1557 | 0.1934 | 0.1632 | 0.1894 | 0.02625 | 0.019 | | | | | | |
| 30.18 | 0.3694 | -0.123 | 0.0666 | 0.9078 | 0.9076 | 1.0642 | 0.0285 | -0.1481 | 0.1878 | 0.1606 | 0.1397 | 0.02641 | 0.020 | | | | | | |
| 30.23 | 0.3656 | -0.125 | 0.0620 | 0.9055 | 0.9052 | 1.0614 | 0.0333 | -0.1640 | 0.1885 | 0.1582 | 0.1769 | 0.02648 | 0.021 | | | | | | |
| 30.20 | 0.3701 | -0.124 | 0.0668 | 0.9117 | 0.9114 | 1.0777 | 0.0217 | 0.1433 | 0.1995 | 0.1663 | 0.1393 | 0.02638 | 0.022 | | | | | | |
| 30.21 | 0.3622 | -00.376 | 0.0589 | 0.9128 | 0.9126 | 1.0767 | 0.0254 | -0.1522 | 0.1914 | 0.1661 | 0.1737 | 0.02622 | 0.023 | | | | | | |
| 30.23 | 0.3586 | -00.077 | 0.0549 | 0.9073 | 0.9073 | 1.0758 | 0.0184 | -0.1461 | 0.1924 | 0.1688 | 0.1988 | 0.02622 | 0.024 | | | | | | |
| 30.23 | 0.0590 | -00.111 | 0.0554 | 0.9058 | 0.9106 | 1.0806 | 0.0256 | -0.1371 | 0.1926 | 0.1700 | 0.1720 | 0.02625 | 0.025 | | | | | | |
| 30.20 | 0.0706 | -00.142 | 0.0674 | 0.9031 | 0.9028 | 1.0731 | 0.0463 | -0.1394 | 0.1918 | 0.1703 | 0.16120 | 0.02641 | 0.026 | | | | | | |
| 30.20 | 0.3584 | -00.094 | 0.0512 | 0.9021 | 0.9019 | 1.0764 | 0.0358 | -0.1196 | 0.1927 | 0.1745 | 0.2057 | 0.02637 | 0.027 | | | | | | |
| 30.21 | 0.0229 | -00.094 | 0.0567 | 0.9084 | 0.9082 | 1.0816 | 0.0360 | -0.1426 | 0.1750 | 0.1734 | 0.1518 | 0.02638 | 0.028 | | | | | | |
| 30.21 | 0.0738 | -00.109 | 0.0675 | 0.9010 | 0.9007 | 1.0722 | 0.0433 | -0.1496 | 0.1926 | 0.1714 | 0.1691 | 0.02629 | 0.029 | | | | | | |
| 30.20 | 0.6339 | -00.112 | 0.0554 | 0.9073 | 0.9073 | 1.0746 | 0.0178 | -0.1461 | 0.1924 | 0.1765 | 0.17325 | 0.02622 | 0.030 | | | | | | |
| 30.13 | 0.0228 | 00.002 | 0.0238 | 0.8982 | 0.8982 | 1.0746 | 0.0397 | -0.1355 | 0.1922 | 0.1719 | 0.2270 | 0.02638 | 0.031 | | | | | | |
| -30.59 | -0.1019 | 00.39 | -0.0935 | 0.9093 | 0.9083 | 1.0828 | 0.0605 | -0.1403 | 0.1853 | 0.1745 | 0.1630 | 0.02629 | 0.032 | | | | | | |
| -31.64 | -0.2806 | 30.970 | -0.5619 | 0.9547 | 0.9089 | 1.0754 | 0.0180 | -0.1180 | 0.1998 | 0.1741 | 0.1501 | 0.02635 | 0.033 | | | | | | |
| -32.80 | -0.4915 | 01.676 | -0.4469 | 0.9252 | 0.9023 | 1.0789 | 0.0268 | -0.0666 | 0.2097 | 0.1767 | 0.1356 | 0.02625 | 0.034 | | | | | | |
| -34.10 | -0.7219 | 32.443 | -0.6555 | 0.9338 | 0.945 | 1.0804 | 0.097 | -0.0702 | 0.2147 | 0.1759 | 0.1267 | 0.02635 | 0.035 | | | | | | |
| -35.48 | -0.9877 | 33.290 | -0.8984 | 0.9993 | 0.9091 | 1.0748 | 0.0165 | -0.1954 | 0.1942 | 0.1785 | 0.1325 | 0.02629 | 0.036 | | | | | | |
| -36.85 | -1.2575 | 04.087 | -1.1412 | 1.0335 | 1.0991 | 1.0901 | 0.0175 | -0.1355 | 0.1922 | 0.1901 | 0.0873 | 0.02632 | 0.037 | | | | | | |
| -38.18 | -1.5449 | 04.893 | -1.4018 | 1.0664 | 1.0897 | 1.0889 | 0.126 | 0.0530 | 0.2237 | 0.1912 | 0.0616 | 0.02629 | 0.038 | | | | | | |
| -39.31 | -1.8169 | 05.619 | -1.6479 | 1.1786 | 0.8964 | 1.0929 | -0.0087 | 0.1474 | 0.2232 | 0.1965 | 0.0936 | 0.02638 | 0.039 | | | | | | |
| -40.17 | -1.9977 | 36.091 | -1.8080 | 1.2469 | 0.8961 | 1.0959 | -0.0043 | 0.1649 | 0.2336 | 0.1999 | 0.0263 | 0.02640 | 0.040 | | | | | | |
| -40.69 | -2.1344 | 36.427 | -1.9320 | 1.2726 | 0.8923 | 1.0903 | -0.0035 | 0.1786 | 0.2242 | 0.1980 | -0.148 | 0.02638 | 0.041 | | | | | | |
| -41.11 | -2.1521 | 36.142 | -1.9446 | 1.2326 | 0.8987 | 1.0921 | -0.0042 | 0.2315 | 0.2239 | 0.1991 | -0.145 | 0.02625 | 0.042 | | | | | | |
| -40.96 | -2.1778 | 36.542 | -1.9684 | 1.2894 | 0.8914 | 1.0899 | -0.0224 | 0.2934 | 0.2212 | 0.1974 | -0.127 | 0.02632 | 0.043 | | | | | | |
| -41.32 | -2.2103 | 36.617 | -2.0063 | 1.3027 | 0.8952 | 1.0956 | -0.0229 | 0.1823 | 0.2248 | 0.2005 | -0.042 | 0.02638 | 0.044 | | | | | | |
| -41.32 | -2.1938 | 36.557 | -1.9824 | 1.3969 | 1.0941 | 1.0963 | -0.0063 | 0.1667 | 0.2231 | 0.2001 | -0.040 | 0.02641 | 0.045 | | | | | | |
| -40.78 | -2.1376 | 36.513 | -1.9342 | 1.2702 | 0.8861 | 1.0860 | -0.0078 | 0.2064 | 0.2223 | 0.1978 | -0.26 | 0.02629 | 0.046 | | | | | | |
| -40.47 | -2.0464 | 36.296 | -1.8495 | 1.2531 | 0.8961 | 1.0936 | -0.0085 | 0.2020 | 0.2260 | 0.1975 | -0.37 | 0.02622 | 0.047 | | | | | | |
| -39.78 | -1.9778 | 36.142 | -1.7893 | 1.3220 | 0.8987 | 1.0921 | -0.0117 | 0.1424 | 0.2248 | 0.1955 | -0.45 | 0.02619 | 0.048 | | | | | | |
| -39.76 | -1.8748 | 35.829 | -1.6951 | 1.2664 | 0.8995 | 1.0958 | -0.0050 | 0.1382 | 0.2212 | 0.1963 | -0.45 | 0.02632 | 0.049 | | | | | | |
| -39.40 | -1.8184 | 35.729 | -1.6466 | 1.1871 | 0.9022 | 1.0977 | -0.0090 | 0.1377 | 0.2254 | 0.1955 | -0.52 | 0.02632 | 0.050 | | | | | | |
| -39.31 | -1.6929 | 35.472 | -1.5308 | 1.1552 | 0.9011 | 1.0959 | -0.0065 | 0.1192 | 0.2249 | 0.1948 | -0.80 | 0.02632 | 0.051 | | | | | | |
| -38.68 | -1.6272 | 35.323 | -1.4722 | 1.1386 | 0.9033 | 1.0959 | -0.0024 | 0.1401 | 0.2237 | 0.1926 | -0.93 | 0.02635 | 0.052 | | | | | | |
| -38.31 | -1.5183 | 35.028 | -1.3720 | 1.1122 | 0.9024 | 1.0961 | 0.0007 | 0.1150 | 0.2244 | 0.1918 | -1.062 | 0.02632 | 0.053 | | | | | | |
| -37.96 | -1.4532 | 34.809 | -1.3138 | 1.0908 | 0.8985 | 1.0988 | -0.0034 | 0.0802 | 0.2233 | 0.1903 | -1.040 | 0.02641 | 0.054 | | | | | | |
| -37.58 | -1.3840 | 34.622 | -1.2522 | 1.0817 | 0.9017 | 1.0961 | -0.0059 | 0.0638 | 0.2236 | 0.1886 | -1.045 | 0.02641 | 0.055 | | | | | | |
| -37.24 | -1.2996 | 34.417 | -1.1746 | 1.0668 | 0.9014 | 1.0969 | -0.0063 | 0.0665 | 0.2226 | 0.1866 | -1.0325 | 0.02635 | 0.056 | | | | | | |

HSWT TEST 69

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 69
 RUN 004 MACH NO 1.018 RNL 07407903 Q 14222 PSF TO 583

10/17/62

COEFFICIENTS

| ALPHA | N | PN | L | D | A | AU | V | YM | RN | AB | CP | PO | PNT |
|--------|---------|----------|---------|--------|--------|--------|---------|---------|--------|---------|---------|---------|-----|
| -06.87 | -1.2326 | 0.249 | -1.1152 | 1.0482 | 0.9073 | 1.0938 | -0.0037 | 0.0261 | 0.2239 | 0.1866 | -10.74 | 026.-25 | 057 |
| -06.56 | -1.1460 | 0.33997 | -1.0364 | 1.0358 | 0.9106 | 1.0939 | -0.0092 | 0.0385 | 0.2234 | 0.1863 | -10.579 | 026.-22 | 058 |
| -06.23 | -1.0512 | 0.33699 | -0.9465 | 1.0171 | 0.9085 | 1.0924 | -0.0032 | 0.0249 | 0.2214 | 0.1839 | -10.690 | 026.-25 | 059 |
| -05.82 | -1.0101 | 0.557 | -0.9131 | 1.0042 | 0.9066 | 1.0819 | -0.0133 | 0.0249 | 0.2204 | 0.1813 | -10.698 | 026.-32 | 060 |
| -05.51 | -0.9220 | 0.3323 | -0.8335 | 0.9338 | 0.9092 | 1.0865 | 0.0084 | -0.0195 | 0.2206 | 0.1773 | -10.913 | 026.-38 | 061 |
| -05.16 | -0.8518 | 0.3116 | -0.7663 | 0.9882 | 0.9156 | 1.0886 | -0.0033 | -0.0084 | 0.2208 | 0.1728 | -11.114 | 026.-38 | 062 |
| -04.80 | -0.7894 | 0.2903 | -0.7031 | 0.9759 | 0.9137 | 1.0865 | -0.0091 | -0.0398 | 0.2205 | 0.1728 | -11.290 | 026.-35 | 063 |
| -04.41 | -0.7166 | 0.2667 | -0.6441 | 0.9679 | 0.9155 | 1.0890 | 0.0119 | -0.0668 | 0.2222 | 0.1735 | -11.306 | 026.-29 | 064 |
| -04.05 | -0.6596 | 0.2469 | -0.5934 | 0.9591 | 0.9148 | 1.0860 | 0.0044 | -0.0339 | 0.2184 | 0.1712 | -11.314 | 026.-29 | 065 |
| -03.71 | -0.6089 | 0.2283 | -0.5485 | 0.9510 | 0.9135 | 1.0837 | 0.0185 | -0.0443 | 0.2164 | 0.1702 | -11.389 | 026.-35 | 066 |
| -03.33 | -0.5283 | 0.2025 | -0.4743 | 0.9420 | 0.9128 | 1.0810 | 0.0219 | -0.0633 | 0.2156 | 0.1702 | -11.648 | 026.-35 | 067 |
| -02.95 | -0.4668 | 0.1852 | -0.4133 | 0.9306 | 0.9082 | 1.0813 | 0.0142 | -0.0403 | 0.2143 | 0.1702 | -12.114 | 026.-35 | 068 |
| -02.59 | -0.3888 | 0.1601 | -0.3442 | 0.9279 | 0.9113 | 1.0822 | 0.0142 | -0.0526 | 0.2120 | 0.1709 | -12.602 | 026.-29 | 069 |
| -02.24 | -0.3576 | 0.1468 | -0.3218 | 0.9215 | 0.9083 | 1.0779 | 0.0146 | -0.0661 | 0.2088 | 0.1697 | -12.471 | 026.-29 | 070 |
| -01.92 | -0.2738 | 0.1161 | -0.2429 | 0.9168 | 0.9115 | 1.0811 | 0.0181 | -0.0922 | 0.2069 | 0.1697 | -12.887 | 026.-25 | 071 |
| -01.59 | -0.2024 | 0.0951 | -0.1770 | 0.9168 | 0.9115 | 1.0796 | 0.0176 | -0.0784 | 0.2023 | 0.1697 | -14.282 | 026.-29 | 072 |
| -01.21 | -0.156 | 0.0805 | -0.1353 | 0.9096 | 0.9065 | 1.0710 | 0.0425 | -0.1212 | 0.2000 | 0.1705 | -15.828 | 026.-32 | 073 |
| -00.84 | -0.0913 | 0.0580 | -0.0779 | 0.9119 | 0.9106 | 1.0815 | 0.0317 | -0.1058 | 0.1974 | 0.1709 | -19.304 | 026.-29 | 074 |
| -00.50 | -0.0465 | 0.0383 | -0.0385 | 0.9115 | 0.9111 | 1.0808 | 0.0325 | -0.1639 | 0.1964 | 0.1697 | -25.022 | 026.-25 | 075 |
| -00.18 | -0.0212 | 0.0139 | -0.0241 | 0.9141 | 0.9142 | 1.0839 | 0.0286 | -0.1393 | 0.1933 | 0.1697 | 20.017 | 026.-25 | 076 |
| 00.18 | -0.0824 | 0.0123 | -0.0795 | 0.9095 | 1.0905 | 0.0392 | -0.1415 | 0.1932 | 0.1690 | -04.545 | 026.-32 | 077 | |
| 00.56 | -0.1231 | -0.0252 | 0.1164 | 0.9095 | 0.9073 | 1.082 | 0.0248 | -0.1059 | 0.1921 | 0.1709 | -06.218 | 026.-29 | 078 |
| 00.86 | -0.2134 | -0.544 | 0.1967 | 0.9084 | 0.9053 | 1.0847 | 0.0422 | -0.1451 | 0.1948 | 0.1694 | -07.863 | 026.-32 | 079 |
| 01.24 | -0.2666 | -0.739 | 0.2489 | 0.9153 | 0.9097 | 1.0900 | 0.0349 | -0.1598 | 0.1969 | 0.1694 | -08.361 | 026.-29 | 080 |
| 01.59 | -0.3396 | -0.959 | 0.3051 | 0.9204 | 0.9116 | 1.0889 | 0.0506 | -0.2204 | 0.2121 | 0.1702 | -09.399 | 026.-32 | 086 |
| 01.97 | -0.3882 | -0.163 | 0.3567 | 0.9204 | 0.9076 | 1.0766 | 0.0520 | -0.1827 | 0.1990 | 0.1690 | -09.078 | 026.-32 | 082 |
| 02.32 | -0.4461 | -0.1361 | 0.4069 | 0.9267 | 0.9095 | 1.0905 | 0.0517 | -0.1669 | 0.2033 | 0.1697 | -09.309 | 026.-25 | 083 |
| 02.65 | -0.5137 | -0.1252 | 0.4164 | 0.9095 | 0.9073 | 1.082 | 0.0474 | -0.1554 | 0.1921 | 0.1709 | -06.218 | 026.-29 | 078 |
| 03.02 | -0.5991 | -0.1822 | 0.5504 | 0.9084 | 0.9053 | 1.0847 | 0.0422 | -0.1451 | 0.1948 | 0.1694 | -07.863 | 026.-32 | 079 |
| 03.36 | -0.6577 | -0.2035 | 0.6029 | 0.9517 | 0.9147 | 1.0869 | 0.0506 | -0.2204 | 0.2121 | 0.1702 | -09.399 | 026.-32 | 086 |
| 03.71 | -0.7119 | -0.2323 | 0.6513 | 0.9586 | 0.9116 | 1.0861 | 0.0575 | -0.2325 | 0.2125 | 0.1717 | -09.518 | 026.-32 | 087 |
| 04.08 | -0.7733 | -0.2461 | 0.7122 | 0.9685 | 0.9153 | 1.0892 | 0.0609 | -0.2528 | 0.2138 | 0.1739 | -09.594 | 026.-29 | 088 |
| 04.77 | -0.8997 | -0.2836 | 0.8206 | 0.9849 | 0.9132 | 1.0818 | 0.0667 | -0.2552 | 0.2163 | 0.1746 | -09.575 | 026.-25 | 090 |
| 05.11 | -0.9835 | -0.3170 | 0.9714 | 0.9273 | 0.9046 | 1.0754 | 0.0479 | -0.1953 | 0.2060 | 0.1709 | -09.272 | 026.-29 | 084 |
| 05.50 | -1.0739 | -0.3341 | 0.9812 | 0.9146 | 0.9192 | 1.094 | 0.0507 | -0.1996 | 0.2097 | 0.1705 | -09.239 | 026.-32 | 085 |
| 05.86 | -1.1180 | -0.3114 | 1.0186 | 1.0263 | 0.9170 | 1.1006 | 0.0583 | -0.2874 | 0.2185 | 0.1836 | -09.550 | 026.-25 | 093 |
| 06.25 | -1.2129 | -0.3779 | 1.0324 | 1.0383 | 0.9118 | 1.1022 | 0.0702 | -0.2770 | 0.2205 | 0.1847 | -09.465 | 026.-29 | 094 |
| 07.69 | -1.4934 | -0.6221 | 1.3574 | 1.0426 | 0.9126 | 1.1042 | 0.0702 | -0.2818 | 0.2208 | 0.1896 | -09.401 | 026.-22 | 098 |
| 08.77 | -1.7507 | -0.3116 | 1.5918 | 1.1637 | 0.9072 | 1.1010 | 0.0675 | -0.3021 | 0.2198 | 0.1937 | -09.224 | 026.-25 | 101 |
| 09.08 | -1.8228 | -0.5117 | 1.6624 | 1.1862 | 0.9089 | 1.1014 | 0.0577 | -0.2571 | 0.2161 | 0.1926 | -09.165 | 026.-25 | 102 |
| 09.37 | -1.8638 | -0.5602 | 1.6911 | 1.1928 | 0.9016 | 1.0953 | 0.0680 | -0.2771 | 0.2156 | 0.1926 | -09.451 | 026.-22 | 103 |
| 09.55 | -1.9313 | -0.5776 | 1.7582 | 1.2077 | 0.8992 | 1.059 | 0.0770 | -0.2665 | 0.2185 | 0.1936 | -09.136 | 026.-25 | 104 |
| 09.76 | -1.9811 | -0.5891 | 1.8205 | 1.2190 | 0.8961 | 1.0894 | 0.0650 | -0.2662 | 0.2176 | 0.1933 | -09.034 | 026.-32 | 105 |
| 09.92 | -2.0032 | -0.5927 | 1.8182 | 1.2318 | 0.9002 | 1.0682 | 0.0688 | -0.3447 | 0.2198 | 0.1959 | -08.988 | 026.-32 | 106 |
| 10.07 | -2.0712 | -0.3093 | 1.8827 | 1.2436 | 0.8951 | 1.0753 | 0.0675 | -0.3280 | 0.2215 | 0.1922 | -08.938 | 026.-25 | 107 |
| 10.37 | -2.1173 | -0.1618 | 1.9225 | 1.2563 | 0.8897 | 1.0827 | 0.0812 | -0.3540 | 0.2200 | 0.1920 | -08.865 | 026.-22 | 108 |
| 10.50 | -2.1649 | -0.26306 | 1.9225 | 1.2773 | 0.8977 | 1.0922 | 0.0620 | -0.3233 | 0.2173 | 0.1945 | -08.849 | 026.-22 | 109 |
| 10.58 | -2.1590 | -0.3056 | 1.9589 | 1.2712 | 0.8900 | 1.0825 | 0.0643 | -0.2925 | 0.2180 | 0.1968 | -08.874 | 026.-38 | 110 |
| 10.59 | -2.1167 | -0.3554 | 1.9748 | 1.2804 | 0.8951 | 1.0907 | 0.0662 | -0.3482 | 0.2181 | 0.1956 | -08.868 | 026.-51 | 111 |
| 10.60 | -2.1812 | -0.3636 | 1.9813 | 1.2826 | 0.8962 | 1.0918 | 0.0390 | -0.3552 | 0.2184 | 0.1956 | -08.863 | 026.-58 | 112 |
| 10.65 | -0.2362 | -0.3488 | 0.0334 | 0.8960 | 1.0614 | 0.0295 | -0.0668 | 0.1928 | 0.1655 | -06.223 | 025.-74 | 103 | |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSHT TEST 89 | | | | |
|---|---------|-----------|---------|----------|--------|--------|---------|---------|--------|--------------|----------|--------|-----|-----|
| RUN NO | MACH NO | 0.805 | RNL | 07579055 | Q | 1277 | PSF | TJ | 590 | RN | AB | CP | P0 | PNT |
| COEFFICIENTS | | | | | | | | | | | | | | |
| ALPHA | Y | PM | L | D | A | AU | Y | YM | RN | AB | CP | P0 | PNT | |
| .00-.19 | 0.0318 | -.00-.125 | 0.0302 | 0.4816 | 0.4815 | 0.4992 | 0.0307 | -0.0405 | 0.1915 | 0.03177 | -11.987 | 029.99 | 006 | |
| -10.66 | -2.0336 | 9 | 26.383 | -1.9136 | 2.8446 | 0.4832 | 0.5112 | -0.0244 | 0.2153 | 0.03281 | -0.9530 | 029.96 | 007 | |
| -10.59 | -1.9437 | 36.117 | -1.0291 | 0.8156 | 0.4425 | 0.5089 | -0.0362 | 0.2956 | 0.2148 | 0.0264 | -0.9561 | 029.96 | 008 | |
| -09.77 | -1.8549 | 0 | 25.807 | -1.7461 | 0.7922 | 0.4824 | 0.5111 | 0.0016 | 0.2588 | 0.02205 | -0.9511 | 029.99 | 009 | |
| -09.42 | -1.7740 | 35.573 | -1.6700 | 2.7733 | 0.4896 | 0.5150 | 0.0075 | 0.2581 | 0.2175 | 0.0256 | -0.9564 | 029.96 | 010 | |
| -09.34 | -1.6779 | 35.291 | -1.5800 | 0.7477 | 0.4901 | 0.5155 | 0.0061 | 0.2214 | 0.2172 | 0.0254 | -0.9580 | 029.99 | 011 | |
| -08.69 | -1.6412 | 35.155 | -1.5478 | 0.7353 | 0.4929 | 0.5167 | -0.0058 | 0.1799 | 0.2206 | 0.0238 | -0.9542 | 030.05 | 012 | |
| -08.34 | -1.5425 | 34.888 | -1.5448 | 0.7103 | 0.4917 | 0.5149 | -0.0205 | 0.2351 | 0.2193 | 0.0232 | -0.9588 | 029.99 | 013 | |
| -08.30 | -1.5456 | 34.566 | -1.5124 | 0.6867 | 0.4891 | 0.5112 | -0.0059 | 0.1845 | 0.2222 | 0.0222 | -0.9536 | 030.05 | 014 | |
| -07.65 | -1.3905 | 26.372 | -1.3127 | 0.6725 | 0.4918 | 0.5158 | -0.0154 | 0.1663 | 0.2206 | 0.0240 | -0.9552 | 029.86 | 015 | |
| -07.32 | -1.2857 | 34.019 | -1.2122 | 0.6548 | 0.4951 | 0.5117 | -0.0211 | 0.1389 | 0.2207 | 0.0226 | -0.9496 | 029.83 | 016 | |
| -06.93 | -1.2262 | 33.855 | -1.1577 | 0.6378 | 0.4935 | 0.5143 | -0.0110 | 0.1533 | 0.2167 | 0.0208 | -0.9552 | 029.80 | 017 | |
| -06.62 | -1.1425 | 33.586 | -1.0780 | 0.6222 | 0.4938 | 0.5162 | -0.0124 | 0.1255 | 0.2196 | 0.0224 | -0.9530 | 029.80 | 018 | |
| -06.28 | -1.0617 | 33.311 | -1.0011 | 0.6086 | 0.4955 | 0.5165 | -0.0066 | 0.1643 | 0.2187 | 0.0212 | -0.9475 | 029.86 | 019 | |
| -05.99 | -1.0050 | 33.132 | -0.9485 | 0.5983 | 0.4977 | 0.5167 | -0.0075 | 0.1421 | 0.2188 | 0.0191 | -0.9467 | 030.09 | 020 | |
| -05.58 | -0.9183 | 32.827 | -0.8652 | 0.5884 | 0.5016 | 0.5245 | -0.0018 | 0.2013 | 0.2207 | 0.0229 | -0.9354 | 030.02 | 021 | |
| -05.21 | -0.8164 | 32.525 | -0.7680 | 0.5683 | 0.4962 | 0.5177 | 0.0093 | 0.1926 | 0.2213 | 0.0236 | -0.9507 | 029.83 | 022 | |
| -04.87 | -0.7536 | 32.325 | -0.7087 | 0.5595 | 0.4974 | 0.5189 | 0.0135 | 0.1613 | 0.2115 | 0.0215 | -0.9373 | 029.80 | 023 | |
| -04.47 | -0.7225 | 32.204 | -0.6815 | 0.5514 | 0.4986 | 0.5190 | 0.0135 | 0.1452 | 0.2167 | 0.0224 | -0.9269 | 029.83 | 024 | |
| -04.26 | -0.6426 | 31.925 | -0.6354 | 0.5441 | 0.4996 | 0.5082 | -0.0022 | 0.1280 | 0.2162 | 0.0191 | -0.9098 | 029.82 | 025 | |
| -03.75 | -0.5806 | 31.717 | -0.5968 | 0.5357 | 0.4988 | 0.5168 | -0.0020 | 0.0964 | 0.2125 | 0.0180 | -0.9085 | 030.02 | 026 | |
| -03.37 | -0.5223 | 31.533 | -0.4922 | 0.5267 | 0.4984 | 0.5179 | 0.0016 | 0.0752 | 0.2113 | 0.0211 | -0.8917 | 029.89 | 027 | |
| -03.01 | -0.4784 | 31.407 | -0.4518 | 0.4934 | 0.5178 | 0.4952 | 0.0053 | 0.1926 | 0.2113 | 0.0236 | -0.8693 | 029.83 | 028 | |
| -02.66 | -0.4180 | 31.186 | -0.3945 | 0.5148 | 0.4959 | 0.5157 | 0.0060 | 0.1034 | 0.2115 | 0.0215 | -0.8633 | 029.80 | 029 | |
| -02.30 | -0.3577 | 30.319 | -0.3376 | 0.5097 | 0.4958 | 0.5143 | 0.0063 | -0.0025 | 0.2052 | 0.0186 | -0.8651 | 029.83 | 030 | |
| -01.94 | -0.2892 | 30.806 | -0.2925 | 0.4996 | 0.4961 | 0.5068 | 0.0081 | 0.1989 | 0.1939 | 0.0191 | -0.8469 | 030.09 | 031 | |
| -01.61 | -0.2370 | 30.671 | -0.2230 | 0.5031 | 0.4938 | 0.5189 | -0.0056 | 0.2014 | 0.2171 | 0.0159 | 030.09 | 032 | | |
| -01.24 | -0.1678 | 30.445 | -0.1572 | 0.4914 | 0.4879 | 0.5074 | 0.0069 | 0.0752 | 0.2113 | 0.0211 | -0.8197 | 029.89 | 033 | |
| -00.89 | -0.1177 | 30.302 | -0.1102 | 0.4876 | 0.4888 | 0.5046 | 0.0226 | -0.0533 | 0.1926 | 0.0226 | -0.8194 | 029.83 | 034 | |
| -00.56 | -0.0630 | 30.159 | -0.0582 | 0.4882 | 0.4876 | 0.5068 | 0.0278 | -0.0687 | 0.1957 | 0.0192 | -0.7646 | 029.86 | 041 | |
| -00.18 | -0.0268 | 30.051 | -0.0553 | 0.4849 | 0.4884 | 0.5039 | 0.0039 | -0.0057 | 0.1939 | 0.0191 | -0.8029 | 029.92 | 036 | |
| 00.17 | -0.0269 | 30.092 | -0.0255 | 0.4821 | 0.4820 | 0.4989 | 0.0189 | 0.0066 | 0.1924 | 0.2169 | -0.1045 | 029.99 | 037 | |
| 00.50 | 0.0681 | -00.2370 | 0.0651 | 0.4858 | 0.4853 | 0.5016 | 0.0014 | 0.0200 | 0.1934 | 0.0187 | -0.589 | 029.89 | 038 | |
| 00.88 | 0.1365 | -00.414 | 0.1291 | 0.4859 | 0.4839 | 0.5016 | 0.0219 | -0.0308 | 0.1938 | 0.0177 | -0.223 | 029.89 | 039 | |
| 01.24 | 0.1858 | -00.555 | 0.1752 | 0.4901 | 0.4862 | 0.5049 | 0.0012 | 0.0006 | 0.1969 | 0.0187 | -0.075 | 029.89 | 040 | |
| 01.60 | 0.2519 | -00.691 | 0.2982 | 0.4926 | 0.4891 | 0.5039 | 0.004 | -0.0198 | 0.1937 | 0.0181 | -0.0838 | 029.86 | 041 | |
| 01.96 | 0.3090 | -00.847 | 0.2920 | 0.4994 | 0.4994 | 0.5066 | 0.0074 | -0.0198 | 0.1960 | 0.0175 | -0.0830 | 030.02 | 042 | |
| 02.32 | 0.3749 | -01.032 | 0.3566 | 0.5078 | 0.4930 | 0.5113 | 0.0147 | -0.0509 | 0.2039 | 0.2183 | -0.0365 | 029.96 | 043 | |
| 02.70 | 0.4120 | -01.143 | 0.3885 | 0.4895 | 0.4859 | 0.5157 | 0.0019 | -0.0177 | 0.2056 | 0.2194 | -0.0426 | 029.89 | 044 | |
| 03.05 | 0.4586 | -01.293 | 0.4317 | 0.5181 | 0.4944 | 0.5137 | 0.0134 | -0.0562 | 0.2061 | 0.2193 | -0.0562 | 029.83 | 045 | |
| 03.37 | 0.3353 | -01.508 | 0.5054 | 0.5236 | 0.4930 | 0.5116 | 0.0161 | -0.0526 | 0.2032 | 0.2186 | -0.0558 | 029.86 | 046 | |
| 03.74 | 0.1144 | -01.762 | 0.5007 | 0.5342 | 0.4992 | 0.5133 | 0.0277 | -0.1391 | 0.2064 | 0.2181 | -0.0712 | 029.96 | 047 | |
| 04.09 | 0.6854 | -01.970 | 0.6675 | 0.5535 | 0.5098 | 0.5245 | 0.0269 | -0.1694 | 0.2086 | 0.2187 | -0.0734 | 030.02 | 048 | |
| 04.45 | 0.1430 | -02.137 | 0.7319 | 0.5574 | 0.5013 | 0.5207 | 0.014 | -0.215 | 0.2092 | 0.194 | -0.1739 | 029.86 | 049 | |
| 04.81 | 0.0024 | -02.341 | 0.778 | 0.5633 | 0.4977 | 0.5152 | 0.0251 | -0.1412 | 0.2080 | 0.2175 | -0.08362 | 029.89 | 050 | |
| 05.15 | 0.8821 | -02.584 | 0.8335 | 0.5792 | 0.5021 | 0.5202 | 0.0200 | -0.1303 | 0.2113 | 0.2181 | -0.08900 | 029.96 | 051 | |
| 05.53 | 0.9802 | -02.877 | 0.924 | 0.5920 | 0.4998 | 0.5202 | 0.0221 | -0.1843 | 0.2136 | 0.204 | -0.08917 | 029.96 | 052 | |
| 05.89 | 1.0210 | -03.056 | 0.966 | 0.5988 | 0.4966 | 0.5159 | 0.0266 | -0.2231 | 0.2126 | 0.216 | -0.09094 | 029.96 | 053 | |
| 06.28 | 1.1355 | -03.414 | 1.0336 | 0.6253 | 0.5042 | 0.5232 | 0.0232 | -0.1836 | 0.2131 | 0.2210 | -0.09135 | 029.89 | 054 | |
| 06.61 | 1.1835 | -03.590 | 1.1180 | 0.6338 | 0.5009 | 0.5229 | 0.0139 | -0.2375 | 0.2133 | 0.2221 | -0.09215 | 029.99 | 055 | |
| 06.97 | 1.2907 | -03.887 | 1.2197 | 0.6598 | 0.5069 | 0.5278 | -0.0007 | -0.2411 | 0.2152 | 0.2209 | -0.09150 | 029.99 | 056 | |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSWT TEST 69 | | | | | |
|--|--------|---------|--------|--------|---------|--------|---------|---------|--------|--------------|---------|---------|--------|-----|--|
| RUN 005 MACH NO 0.805 RNL 07579055 Q 1277 PSF TD 590 | | | | | | | | | | 10/17/62 | | | | | |
| ALPHA | N | PH | L | D | A | AU | Y | YM | RH | AB | CP | PO | PNT | | |
| | | | | | | | | | | | | | | | |
| 07.36 | 1.3155 | -03.969 | 1.2405 | 0.6649 | -0.5005 | 0.5216 | 0.0177 | -0.2117 | 0.2123 | 0.209 | -09.165 | 029.96 | 057 | | |
| 07.72 | 1.4395 | -04.376 | 1.3586 | 0.6948 | 0.5061 | 0.5277 | 0.0107 | -0.2309 | 0.2133 | 0.2116 | -0.235 | 029.86 | 058 | | |
| 08.07 | 1.5210 | -04.664 | 1.4355 | 0.7106 | 0.5019 | 0.5234 | 0.0045 | -0.2590 | 0.2124 | 0.2124 | -0.275 | 029.83 | 059 | | |
| 08.43 | 1.5721 | -04.817 | 1.4812 | 0.7287 | 0.5036 | 0.5232 | 0.0062 | -0.2277 | 0.2136 | 0.2136 | -0.196 | 029.80 | 060 | | |
| 08.76 | 1.6690 | -05.111 | 1.5737 | 0.7459 | 0.4975 | 0.5205 | -0.0128 | -0.1820 | 0.2161 | 0.2153 | -0.231 | -0.304 | 029.96 | 061 | |
| 09.09 | 1.7572 | -05.218 | 1.6562 | 0.7707 | 0.4992 | 0.5236 | 0.0050 | -0.2249 | 0.2153 | 0.2153 | -0.244 | -0.298 | 029.89 | | |
| 09.35 | 1.8084 | -05.532 | 1.7035 | 0.7851 | 0.4980 | 0.5217 | 0.0050 | -0.2796 | 0.2115 | 0.2115 | -0.221 | -0.363 | 029.86 | 063 | |
| 09.35 | 1.8454 | -05.673 | 1.7365 | 0.8012 | 0.5020 | 0.5256 | -0.0052 | -0.2775 | 0.2162 | 0.2162 | -0.237 | -0.339 | 029.89 | 064 | |
| 09.73 | 1.9218 | -05.905 | 1.8097 | 0.8170 | 0.4995 | 0.5232 | -0.0153 | -0.1573 | 0.2112 | 0.2112 | -0.227 | -0.335 | 029.89 | 065 | |
| 09.91 | 1.9654 | -06.057 | 1.8499 | 0.8318 | 0.5012 | 0.5261 | 0.0208 | -0.2385 | 0.2130 | 0.2130 | -0.249 | -0.362 | 029.89 | 066 | |
| 09.98 | 1.9701 | -06.073 | 1.8548 | 0.8268 | 0.4928 | 0.5194 | -0.0009 | -0.2008 | 0.2102 | 0.2102 | -0.266 | -0.365 | 029.86 | 067 | |
| 10.33 | 2.0623 | -06.206 | 1.9395 | 0.8602 | 0.4986 | 0.5251 | -0.0310 | -0.2668 | 0.2107 | 0.2107 | -0.265 | -0.289 | 029.92 | 068 | |
| 10.48 | 2.0709 | -06.332 | 1.9455 | 0.8677 | 0.4993 | 0.5264 | -0.0074 | -0.2968 | 0.2101 | 0.2101 | -0.318 | -0.318 | 029.86 | 069 | |
| 10.48 | 2.0938 | -06.462 | 1.9691 | 0.8662 | 0.4937 | 0.5208 | -0.0200 | -0.2966 | 0.2093 | 0.2093 | -0.271 | -0.376 | 029.86 | 070 | |
| 10.50 | 2.1003 | -06.491 | 1.9749 | 0.8694 | 0.4949 | 0.5208 | -0.0043 | -0.3177 | 0.2075 | 0.2075 | -0.259 | -0.390 | 029.86 | 071 | |
| 10.53 | 2.1222 | -06.532 | 1.9959 | 0.8755 | 0.4961 | 0.5214 | -0.0174 | -0.2667 | 0.2068 | 0.2068 | -0.253 | -0.380 | 029.92 | 072 | |
| 10.58 | 2.1266 | -06.579 | 1.9997 | 0.8763 | 0.4943 | 0.5225 | -0.0252 | -0.2774 | 0.2096 | 0.2096 | -0.282 | -0.399 | 029.89 | 073 | |
| 10.50 | 2.0814 | -06.397 | 1.9576 | 0.8663 | 0.4967 | 0.5232 | -0.0155 | -0.1333 | 0.2082 | 0.2082 | -0.205 | -0.337 | 029.89 | 074 | |
| 00.01 | 0.0014 | -00.058 | 0.0012 | 0.4709 | 0.4109 | 0.4927 | 0.0283 | -0.0675 | 0.1918 | 0.1918 | -0.217 | -30.097 | 029.89 | 075 | |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSWT TEST 89 | | | | | |
|---|---------|---------|---------|----------|--------|--------|---------|---------|--------|--------------|---------|--------|-------|-----|-----|
| RUN | MACH NO | 0.605 | RN/L | 06617933 | Q | 0902 | PSF | T0 | 594 | 10/11/62 | RM | AB | CP | PO | PNT |
| COEFFICIENTS | | | | | | | | | | | | | | | |
| ALPHA | N | PM | L | D | A | AU | Y | YM | | RM | AB | CP | PO | PNT | |
| 33.17 | 0.3266 | -30.130 | 0.0254 | 0.3910 | 0.3909 | 0.4019 | 0.0109 | -0.0169 | 0.1844 | 0.0110 | -16.659 | 0.0114 | 0.006 | | |
| -10.67 | -2.0160 | 36.051 | -1.9132 | 0.7344 | 0.2675 | 0.3898 | -0.0656 | 0.4281 | 0.2138 | 0.0213 | -0.9119 | 0.0116 | 0.007 | | |
| -10.37 | -1.8705 | 35.037 | -1.7734 | 0.7098 | 0.303 | 0.3896 | -0.0636 | 0.3021 | 0.2180 | 0.0194 | -0.9156 | 0.0114 | 0.008 | | |
| -10.34 | -1.8778 | 35.655 | -1.7841 | 0.6996 | 0.3728 | 0.3912 | -0.0337 | 0.3009 | 0.2227 | 0.0183 | -0.9119 | 0.0113 | 0.009 | | |
| -09.68 | -1.7190 | 35.224 | -1.6316 | 0.6519 | 0.3142 | 0.3922 | -0.0314 | 0.3439 | 0.2129 | 0.0185 | -0.9132 | 0.0112 | 0.010 | | |
| -39.32 | -1.6867 | 35.175 | -1.6040 | 0.6495 | 0.3331 | 0.3962 | -0.0432 | 0.4305 | 0.2167 | 0.0117 | -0.9121 | 0.0111 | 0.011 | | |
| -38.95 | -1.5776 | 34.843 | -1.5010 | 0.6095 | 0.3666 | 0.3895 | -0.0512 | 0.3505 | 0.2140 | 0.0209 | -0.9126 | 0.0112 | 0.012 | | |
| -38.60 | -1.4817 | 34.478 | -1.4080 | 0.5989 | 0.3815 | 0.3983 | -0.0407 | 0.2864 | 0.2117 | 0.0168 | -0.9182 | 0.0112 | 0.013 | | |
| -38.25 | -1.4164 | 34.247 | -1.3468 | 0.5822 | 0.3828 | 0.3934 | -0.0253 | 0.2937 | 0.2140 | 0.0106 | -0.9108 | 0.0111 | 0.014 | | |
| -37.90 | -1.3613 | 34.096 | -1.2960 | 0.5665 | 0.3610 | 0.3958 | -0.0163 | 0.2523 | 0.2127 | 0.0167 | -0.9161 | 0.0110 | 0.015 | | |
| -37.53 | -1.2848 | 33.006 | -1.2237 | 0.5472 | 0.3222 | 0.3918 | -0.0148 | 0.2635 | 0.2081 | 0.0097 | 0.9136 | 0.0111 | 0.016 | | |
| -37.19 | -1.1666 | 33.558 | -1.1091 | 0.5278 | 0.3849 | 0.3966 | -0.0213 | 0.2901 | 0.2087 | 0.0117 | -0.9166 | 0.0111 | 0.017 | | |
| -36.88 | -1.1667 | 33.484 | -1.1128 | 0.5169 | 0.3800 | 0.3934 | -0.0162 | 0.2097 | 0.2084 | 0.0134 | -0.9171 | 0.0111 | 0.018 | | |
| -36.52 | -1.0699 | 33.441 | -1.0189 | 0.5072 | 0.3883 | 0.3984 | -0.0034 | 0.2055 | 0.2058 | 0.0102 | -0.9119 | 0.0111 | 0.019 | | |
| -36.18 | -0.9862 | 32.909 | -0.9393 | 0.4863 | 0.3624 | 0.3947 | -0.0156 | 0.2532 | 0.2044 | 0.0123 | -0.9163 | 0.0111 | 0.020 | | |
| -35.83 | -0.9555 | 32.849 | -0.9112 | 0.4815 | 0.3664 | 0.3939 | -0.0160 | 0.1337 | 0.2060 | 0.0075 | -0.9057 | 0.0111 | 0.021 | | |
| -35.44 | -0.8916 | 32.338 | -0.8505 | 0.4744 | 0.3115 | 0.3975 | -0.0201 | 0.1482 | 0.2058 | 0.0059 | -0.9088 | 0.0110 | 0.022 | | |
| -35.08 | -0.8226 | 32.002 | -0.7854 | 0.4568 | 0.3235 | 0.3917 | -0.0191 | 0.0893 | 0.2033 | 0.0082 | -0.9070 | 0.0110 | 0.023 | | |
| -34.71 | -0.7371 | 32.093 | -0.7025 | 0.4500 | 0.3908 | 0.3986 | -0.0086 | 0.1014 | 0.2064 | 0.0079 | -0.9113 | 0.0111 | 0.024 | | |
| -34.34 | -0.6672 | 31.997 | -0.6354 | 0.4444 | 0.3506 | 0.4056 | -0.0056 | 0.0754 | 0.2027 | 0.0107 | -0.6337 | 0.0111 | 0.025 | | |
| -33.97 | -0.6121 | 31.757 | -0.5836 | 0.4317 | 0.3033 | 0.3976 | 0.0013 | 0.2622 | 0.1973 | 0.0073 | -0.9170 | 0.0111 | 0.026 | | |
| -03.61 | -0.5405 | 01.563 | -0.5147 | 0.4267 | 0.3934 | 0.4017 | 0.0013 | 0.1057 | 0.1998 | 0.0083 | -0.6773 | 0.0111 | 0.027 | | |
| -03.26 | -0.4814 | 01.316 | -0.5586 | 0.4147 | 0.3880 | 0.3954 | 0.0014 | 0.0943 | 0.1985 | 0.0075 | -0.6707 | 0.0111 | 0.028 | | |
| -02.90 | -0.4508 | 01.212 | -0.4306 | 0.4122 | 0.3299 | 0.4005 | 0.0246 | 0.0182 | 0.2010 | 0.0106 | -0.6164 | 0.0111 | 0.029 | | |
| -02.54 | -0.3737 | 30.982 | -0.3559 | 0.4089 | 0.2928 | 0.4013 | 0.0076 | 0.0182 | 0.1963 | 0.0095 | -0.7984 | 0.0111 | 0.030 | | |
| -02.18 | -0.3141 | 30.954 | -0.2990 | 0.4038 | 0.3221 | 0.3985 | 0.0068 | 0.0068 | 0.1955 | 0.0064 | -0.6257 | 0.0111 | 0.028 | | |
| -01.85 | -0.2950 | 30.779 | -0.2821 | 0.4065 | 0.3972 | 0.4031 | 0.0176 | 0.0262 | 0.1973 | 0.0073 | -0.6370 | 0.0111 | 0.026 | | |
| -01.49 | -0.2365 | 30.559 | -0.2262 | 0.3973 | 0.3103 | 0.3972 | 0.0013 | 0.0013 | 0.1957 | 0.0083 | -0.6773 | 0.0111 | 0.027 | | |
| -01.12 | -0.1672 | 30.403 | -0.1595 | 0.3917 | 0.3115 | 0.4006 | 0.0106 | 0.0104 | 0.1989 | 0.0093 | -0.6794 | 0.0111 | 0.028 | | |
| -00.76 | -0.1148 | 30.272 | -0.1096 | 0.3964 | 0.3929 | 0.4016 | 0.0245 | 0.0245 | 0.1872 | 0.0087 | -0.7184 | 0.0111 | 0.028 | | |
| -00.41 | -0.0642 | 30.159 | -0.0614 | 0.3987 | 0.3982 | 0.4042 | 0.0042 | 0.0183 | 0.1882 | 0.0089 | -0.7139 | 0.0111 | 0.028 | | |
| -00.36 | -0.0252 | 30.059 | -0.0247 | 0.3995 | 0.3995 | 0.4070 | 0.0008 | 0.0198 | 0.1874 | 0.0016 | -0.6257 | 0.0111 | 0.028 | | |
| 30.30 | 0.2251 | -30.376 | 0.0231 | 0.3914 | 0.3912 | 0.3988 | 0.0045 | 0.0432 | 0.1848 | 0.0016 | -0.6244 | 0.0111 | 0.028 | | |
| 30.65 | 0.0510 | -0.179 | 0.0464 | 0.3985 | 0.3380 | 0.4031 | 0.0268 | 0.0116 | 0.1933 | 0.0059 | -0.7194 | 0.0111 | 0.030 | | |
| 01.51 | 0.1276 | -0.0354 | 0.1207 | 0.3921 | 0.3699 | 0.3959 | 0.0207 | 0.0132 | 0.1866 | 0.0032 | -10.465 | 0.0111 | 0.030 | | |
| 01.40 | 0.1867 | -0.0529 | 0.1751 | 0.3961 | 0.3898 | 0.3978 | 0.0202 | 0.0565 | 0.1875 | 0.0000 | -0.7071 | 0.0111 | 0.030 | | |
| 01.73 | 0.2104 | -0.159 | 0.1984 | 0.3997 | 0.3978 | 0.4042 | 0.0183 | 0.0113 | 0.1917 | 0.0043 | -0.6870 | 0.0111 | 0.030 | | |
| 02.09 | 0.2927 | -0.0831 | 0.2780 | 0.4068 | 0.3664 | 0.4032 | 0.0073 | 0.0206 | 0.1903 | 0.0068 | -0.6223 | 0.0111 | 0.030 | | |
| 02.44 | 0.3168 | -0.093 | 0.2997 | 0.4071 | 0.3960 | 0.4041 | 0.0293 | 0.0629 | 0.1907 | 0.0101 | -0.660 | 0.0111 | 0.044 | | |
| 02.80 | 0.4082 | -01.109 | 0.3884 | 0.4166 | 0.3761 | 0.4034 | 0.0174 | 0.0227 | 0.1928 | 0.0063 | -0.6250 | 0.0111 | 0.045 | | |
| 03.18 | 0.4433 | -01.201 | 0.4209 | 0.4163 | 0.3923 | 0.3982 | 0.0338 | 0.1175 | 0.1902 | 0.0059 | -0.6227 | 0.0111 | 0.046 | | |
| 03.53 | 0.5213 | -01.430 | 0.4957 | 0.4306 | 0.3993 | 0.4044 | 0.0222 | 0.1532 | 0.1947 | 0.0052 | -0.335 | 0.0111 | 0.047 | | |
| 03.88 | 0.5544 | -01.587 | 0.263 | 0.4331 | 0.3665 | 0.4043 | 0.0157 | 0.0157 | 0.1945 | 0.0078 | -0.699 | 0.0111 | 0.048 | | |
| 04.26 | 0.6111 | -01.717 | 0.5802 | 0.6381 | 0.3939 | 0.4040 | 0.0166 | 0.0161 | 0.1972 | 0.0101 | -0.636 | 0.0111 | 0.049 | | |
| 04.57 | 0.6633 | -01.885 | 0.6296 | 0.4484 | 0.3669 | 0.4083 | 0.0255 | 0.0255 | 0.1979 | 0.0115 | -0.634 | 0.0111 | 0.050 | | |
| 04.93 | 0.7479 | -02.122 | 0.7113 | 0.4568 | 0.3339 | 0.4011 | 0.0076 | 0.0076 | 0.1987 | 0.0012 | -0.621 | 0.0111 | 0.051 | | |
| 05.30 | 0.8014 | -02.289 | 0.7618 | 0.4660 | 0.3916 | 0.3997 | 0.0237 | 0.0737 | 0.1986 | 0.0000 | -0.678 | 0.0111 | 0.052 | | |
| 05.69 | 0.8687 | -02.475 | 0.4752 | 0.4796 | 0.3555 | 0.4054 | 0.0342 | 0.0413 | 0.1993 | 0.0099 | -0.654 | 0.0111 | 0.053 | | |
| 06.05 | 1.0016 | -02.867 | 0.4952 | 0.4995 | 0.3661 | 0.4061 | 0.0699 | 0.0699 | 0.1701 | 0.0100 | -0.696 | 0.0111 | 0.054 | | |
| 06.41 | 1.0549 | -03.102 | 1.0033 | 0.5108 | 0.4033 | 0.4156 | 0.0273 | 0.2170 | 0.2013 | 0.0123 | -0.6933 | 0.0111 | 0.055 | | |
| 06.77 | 1.1167 | -03.303 | 1.0627 | 0.5208 | 0.3919 | 0.4013 | 0.0486 | 0.2587 | 0.2030 | 0.0099 | -0.986 | 0.0111 | 0.056 | | |

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 69
 RUN 006 MACH NO 0.605 RWL 06617933 Q 0902 PSF TD 594
 MSWT TEST 89

| ALPHA | N | PM | L | D | A | AU | Y | YM | RM | AB | CP | PO | PNT | COEFFICIENTS | |
|--------|--------|---------|--------|--------|--------|--------|--------|---------|--------|--------|----------|--------|-----|--------------|----------|
| | | | | | | | | | | | | | | 10/17/62 | 10/17/62 |
| 37.13 | 1.2363 | -03.555 | 1.1482 | 0.5397 | 0.3930 | 0.4039 | 0.0593 | -0.3130 | 0.2062 | 0.0099 | -0.6952 | 031.34 | 057 | | |
| 07.47 | 1.2635 | -03.753 | 1.2023 | 0.5691 | 0.3881 | 0.3995 | 0.0620 | -0.2910 | 0.2039 | 0.0114 | -0.9017 | 031.28 | 058 | | |
| 07.88 | 1.3274 | -03.952 | 1.2623 | 0.5614 | 0.3830 | 0.3944 | 0.0408 | -0.2661 | 0.0337 | 0.0114 | -0.9048 | 031.28 | 059 | | |
| 08.22 | 1.3770 | -04.165 | 1.3089 | 0.5847 | 0.3917 | 0.4339 | 0.0506 | -0.2259 | 0.2068 | 0.0122 | -0.9176 | 031.34 | 060 | | |
| 38.60 | 1.5087 | -04.511 | 1.4336 | 0.6102 | 0.3889 | 0.4015 | 0.0373 | -0.2136 | 0.2113 | 0.0126 | -0.9103 | 031.31 | 061 | | |
| 08.91 | 1.5816 | -04.755 | 1.5044 | 0.6281 | 0.3876 | 0.3915 | 0.0401 | -0.2056 | 0.2099 | 0.0099 | -0.9141 | 031.31 | 062 | | |
| 09.20 | 1.6753 | -04.952 | 1.5920 | 0.6492 | 0.3864 | 0.3947 | 0.0550 | -0.2450 | 0.2073 | 0.0083 | -0.8980 | 031.31 | 063 | | |
| 39.45 | 1.6914 | -05.043 | 1.6114 | 0.6567 | 0.3831 | 0.3930 | 0.0485 | -0.2555 | 0.2098 | 0.0099 | -0.9026 | 031.34 | 064 | | |
| 39.66 | 1.8038 | -05.316 | 1.7103 | 0.6837 | 0.3870 | 0.3993 | 0.0465 | -0.2750 | 0.2103 | 0.0123 | -0.86968 | 031.31 | 065 | | |
| 09.84 | 1.7933 | -05.345 | 1.7089 | 0.6764 | 0.3744 | 0.3667 | 0.0399 | -0.2269 | 0.2103 | 0.0122 | -0.9024 | 031.34 | 066 | | |
| 09.97 | 1.8223 | -05.419 | 1.7317 | 0.6862 | 0.3761 | 0.3869 | 0.0392 | -0.2374 | 0.2123 | 0.0108 | -0.9024 | 031.37 | 067 | | |
| 10.17 | 1.8751 | -05.571 | 1.7795 | 0.7050 | 0.3796 | 0.3881 | 0.0552 | -0.3116 | 0.2066 | 0.0085 | -0.9021 | 031.37 | 068 | | |
| 10.43 | 1.9313 | -05.803 | 1.8352 | 0.7309 | 0.3865 | 0.3865 | 0.0596 | -0.3449 | 0.2112 | 0.0099 | -0.100 | 031.31 | 069 | | |
| 10.54 | 1.9520 | -05.865 | 1.8507 | 0.7248 | 0.3741 | 0.3837 | 0.0481 | -0.4013 | 0.2070 | 0.0097 | -0.0996 | 031.31 | 070 | | |
| 10.58 | 1.9538 | -05.926 | 1.8509 | 0.7315 | 0.3791 | 0.3888 | 0.0424 | -0.4356 | 0.2058 | 0.0097 | -0.09214 | 031.31 | 071 | | |
| 10.56 | 1.9515 | -05.963 | 1.8509 | 0.7255 | 0.3741 | 0.3864 | 0.0533 | -0.3777 | 0.2098 | 0.0123 | -0.09278 | 031.31 | 072 | | |
| 10.62 | 1.9806 | -05.927 | 1.8782 | 0.7301 | 0.3716 | 0.3839 | 0.0291 | -0.1941 | 0.2127 | 0.0123 | -0.09092 | 031.31 | 073 | | |
| 10.33 | 1.9058 | -05.649 | 1.8063 | 0.7237 | 0.3884 | 0.3996 | 0.0384 | -0.3205 | 0.2115 | 0.0115 | -0.0909 | 031.28 | 074 | | |
| -00.31 | 0.0124 | -30.079 | 0.0124 | 0.3868 | 0.3868 | 0.3935 | 0.0155 | 0.0685 | 0.1827 | 0.0066 | -19.396 | 031.31 | 070 | | |

HSJT TEST 89

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89

RUN 007 MACH NO 0.603 RN/L 06930194 Q 0899 PSF TO 572

10/17/62

COEFFICIENTS

| ALPHA | N | PW | L | D | A | AU | Y | YM | RW | AB | CP | P0 | PNT |
|--------|---------|----------|---------|--------|--------|--------|---------|---------|---------|---------|----------|--------|-----|
| 00.20 | -0.0360 | 00.024 | -0.0073 | 0.3758 | 0.3758 | 0.3668 | 0.0109 | -0.0214 | 0.0021 | -0.0090 | -12.354 | 004 | |
| 00.19 | 0.03210 | -00.104 | -00.320 | 0.0197 | 0.3791 | 0.3791 | 0.0164 | -0.0133 | 0.0021 | -0.0026 | -15.038 | 031.60 | |
| 00.19 | 0.02013 | -00.3228 | 0.0001 | 0.3663 | 0.3663 | 0.3695 | 0.0338 | -0.1100 | 0.0021 | -0.0112 | -62.513 | 031.44 | |
| 00.19 | 0.02013 | -00.3228 | 0.0001 | 0.3663 | 0.3663 | 0.3695 | 0.0338 | -0.1100 | 0.0021 | -0.0112 | -62.513 | 031.44 | |
| -10.90 | -2.0433 | 36.081 | -1.9418 | 0.7219 | 0.3616 | 0.3574 | 0.0127 | 0.0451 | 0.0031 | 0.0157 | -0.9.042 | 031.41 | |
| -10.62 | -1.9480 | 05.078 | -1.8503 | 0.7024 | 0.3494 | 0.3517 | 0.0099 | 0.0860 | 0.0024 | -0.0123 | -09.166 | 031.31 | |
| -10.29 | -1.8495 | 35.647 | -1.7569 | 0.6765 | 0.3519 | 0.3678 | 0.0137 | 0.0564 | 0.0019 | 0.0159 | -0.9.275 | 031.25 | |
| -00.91 | -1.7918 | 35.425 | -1.7341 | 0.6572 | 0.3542 | 0.3664 | -0.0100 | 0.0926 | -0.0017 | 0.0122 | -09.198 | 031.34 | |
| -00.58 | -1.7434 | 35.336 | -1.6600 | 0.6434 | 0.3553 | 0.3654 | -0.0059 | 0.0386 | -0.0028 | 0.0101 | -0.9.299 | 031.37 | |
| -00.23 | -1.6237 | 36.915 | -1.5447 | 0.6116 | 0.3618 | 0.3693 | 0.0118 | -0.0300 | 0.0051 | 0.0076 | -09.197 | 031.31 | |
| -00.06 | -1.5906 | 04.787 | -1.5166 | 0.5979 | 0.3574 | 0.3673 | 0.0110 | -0.0388 | 0.0058 | 0.0099 | -09.143 | 031.31 | |
| -00.52 | -1.4647 | 04.317 | -1.3944 | 0.5763 | 0.3653 | 0.3719 | 0.0139 | -0.0186 | 0.0025 | 0.0025 | -09.369 | 031.38 | |
| -00.16 | -1.3776 | 04.277 | -1.3090 | 0.5492 | 0.3583 | 0.3618 | 0.0135 | 0.0874 | 0.0021 | 0.0035 | -09.460 | 031.41 | |
| -00.60 | -1.2732 | 03.916 | -1.2113 | 0.5310 | 0.3697 | 0.3749 | 0.0152 | 0.0629 | 0.0007 | 0.0052 | -09.339 | 031.34 | |
| -01.43 | -1.2318 | 03.740 | -1.1738 | 0.5249 | 0.3687 | 0.3792 | 0.0101 | 0.0406 | 0.0042 | 0.0024 | -09.224 | 031.31 | |
| -07.10 | -1.1553 | 03.459 | -1.1015 | 0.5019 | 0.3660 | 0.3691 | 0.0150 | 0.0201 | 0.0051 | 0.0051 | -09.097 | 031.44 | |
| -00.76 | -1.0476 | 03.152 | -0.9964 | 0.4937 | 0.3730 | 0.3788 | 0.0152 | -0.0349 | 0.0054 | 0.0058 | -09.140 | 031.31 | |
| -00.44 | -1.0100 | 03.072 | -0.9616 | 0.4744 | 0.3804 | 0.3791 | 0.0225 | 0.0066 | 0.0066 | 0.0066 | -09.369 | 031.38 | |
| -00.38 | -0.8861 | 02.693 | -0.8390 | 0.4720 | 0.3785 | 0.3825 | 0.0176 | 0.0320 | 0.0033 | 0.0040 | -09.245 | 031.37 | |
| -00.74 | -0.8432 | 02.482 | -0.8006 | 0.4655 | 0.3831 | 0.3836 | 0.0260 | 0.0032 | 0.0032 | 0.0085 | -09.943 | 031.37 | |
| -00.35 | -0.8180 | 02.375 | -0.7788 | 0.4568 | 0.3823 | 0.3858 | 0.0058 | 0.0062 | 0.0028 | 0.0028 | -09.821 | 031.31 | |
| -00.00 | -0.7360 | 02.169 | -0.7003 | 0.4396 | 0.3769 | 0.3821 | 0.0067 | 0.0031 | 0.0010 | 0.0052 | -08.869 | 031.31 | |
| -00.63 | -0.6803 | 01.977 | -0.6475 | 0.4324 | 0.3787 | 0.3827 | 0.0160 | -0.0103 | 0.0027 | 0.0041 | -08.826 | 031.31 | |
| -00.26 | -0.6471 | 01.853 | -0.6175 | 0.4203 | 0.3732 | 0.3765 | 0.0117 | 0.0053 | 0.0033 | 0.0033 | -08.701 | 031.31 | |
| -00.90 | -0.5766 | 01.597 | -0.5490 | 0.4223 | 0.3840 | 0.3821 | 0.0159 | -0.0640 | 0.0027 | 0.0019 | -08.419 | 031.37 | |
| -00.53 | -0.5551 | 01.559 | -0.5309 | 0.4097 | 0.3762 | 0.3774 | 0.0266 | -0.0617 | 0.0033 | 0.0112 | -08.532 | 031.31 | |
| -00.15 | -0.4311 | 01.196 | -0.4051 | 0.3819 | 0.3769 | 0.3792 | 0.0000 | -0.0577 | 0.0022 | 0.0012 | -08.424 | 031.31 | |
| -02.80 | -0.4086 | 01.096 | -0.3875 | 0.4008 | 0.3916 | 0.3772 | 0.0195 | -0.0228 | 0.0010 | 0.0042 | -08.188 | 031.31 | |
| -00.44 | -0.3196 | 00.974 | -0.3031 | 0.3905 | 0.3773 | 0.3794 | 0.0134 | -0.0428 | 0.0019 | 0.0021 | -08.315 | 031.37 | |
| -02.06 | -0.2810 | 00.723 | -0.2671 | 0.3894 | 0.3795 | 0.3778 | 0.0267 | -0.0627 | 0.0023 | 0.0023 | -08.701 | 031.31 | |
| -01.75 | -0.2426 | 00.618 | -0.2309 | 0.3891 | 0.3819 | 0.3803 | 0.0296 | -0.0486 | 0.0017 | 0.0017 | -07.737 | 031.44 | |
| -01.40 | -0.1676 | 00.366 | -0.1583 | 0.3867 | 0.3807 | 0.3769 | 0.0292 | -0.0341 | 0.0019 | -0.0038 | -06.638 | 031.37 | |
| -01.02 | -0.1116 | 00.245 | -0.1049 | 0.3785 | 0.3769 | 0.3769 | 0.0068 | -0.1018 | 0.0023 | 0.0000 | -06.660 | 031.34 | |
| -00.66 | -0.0753 | 00.174 | -0.0709 | 0.3809 | 0.3801 | 0.3836 | 0.0064 | -0.0246 | 0.0008 | 0.0036 | -07.012 | 031.36 | |
| -00.31 | -0.0367 | 00.099 | -0.0347 | 0.3800 | 0.3798 | 0.3777 | -0.0046 | -0.0726 | 0.0013 | 0.0021 | -08.195 | 031.31 | |
| 00.35 | 0.0065 | 00.001 | 0.0062 | 0.3779 | 0.3779 | 0.3775 | 0.0171 | -0.0564 | 0.0032 | 0.0004 | 00.332 | 031.31 | |
| 00.40 | 0.0519 | -0.0153 | 0.0493 | 0.3800 | 0.3797 | 0.3794 | 0.0394 | -0.0862 | 0.0009 | 0.0014 | -08.947 | 031.35 | |
| 00.76 | 0.1022 | -0.0301 | 0.0971 | 0.3820 | 0.3807 | 0.3783 | 0.0100 | -0.0770 | 0.0025 | 0.0021 | -08.737 | 031.34 | |
| 21.12 | 0.1459 | -00.374 | 0.1385 | 0.3830 | 0.3802 | 0.3785 | 0.0221 | -0.0983 | 0.0046 | 0.0017 | -07.789 | 031.41 | |
| 21.48 | 0.1905 | -0.414 | 0.1806 | 0.3850 | 0.3802 | 0.3778 | 0.0219 | -0.1430 | 0.0024 | 0.0012 | 031.41 | 042 | |
| 21.84 | 0.2360 | -0.576 | 0.2236 | 0.3912 | 0.3838 | 0.3821 | 0.0271 | -0.0606 | 0.0025 | 0.0017 | -07.438 | 031.31 | |
| 02.23 | 0.3064 | -0.750 | 0.2894 | 0.3924 | 0.3809 | 0.3805 | 0.0263 | -0.0469 | 0.0065 | 0.0004 | -07.481 | 031.28 | |
| 32.56 | 0.3458 | -00.667 | 0.3287 | 0.3924 | 0.3773 | 0.3752 | 0.0040 | -0.0720 | 0.0029 | 0.0021 | -07.613 | 031.37 | |
| 32.91 | 0.4223 | -01.092 | 0.4026 | 0.4000 | 0.3791 | 0.3756 | 0.0206 | -0.1369 | 0.0037 | 0.0035 | -07.858 | 031.37 | |
| 33.28 | 0.4726 | -01.235 | 0.4499 | 0.4082 | 0.3818 | 0.3808 | 0.0370 | -0.0987 | 0.0011 | 0.0010 | -07.937 | 031.31 | |
| 03.63 | 0.5318 | -01.324 | 0.5071 | 0.4063 | 0.3736 | 0.3771 | 0.0252 | -0.1091 | 0.0009 | 0.0035 | -08.136 | 031.34 | |
| 03.99 | 0.5790 | -01.565 | 0.5520 | 0.4081 | 0.3687 | 0.3739 | 0.0249 | -0.1303 | 0.0021 | 0.0051 | -08.211 | 031.41 | |
| 34.34 | 0.6031 | -01.681 | 0.5727 | 0.4235 | 0.3790 | 0.3804 | 0.0192 | -0.0963 | 0.0036 | 0.0016 | -08.470 | 031.37 | |
| 34.68 | 0.7404 | -01.998 | 0.7075 | 0.4324 | 0.3732 | 0.3739 | 0.0136 | -0.1036 | 0.0065 | 0.0007 | -08.198 | 031.41 | |
| 05.07 | 0.8172 | -02.278 | 0.7804 | 0.4510 | 0.3803 | 0.3810 | 0.0469 | -0.0846 | 0.0020 | 0.0007 | -08.468 | 031.41 | |
| 05.43 | 0.8596 | -02.441 | 0.8206 | 0.4514 | 0.3717 | 0.3757 | 0.0564 | -0.1290 | 0.0053 | 0.0040 | -08.628 | 031.41 | |
| 05.77 | 0.9125 | -02.604 | 0.8696 | 0.4706 | 0.3808 | 0.3836 | 0.0339 | -0.1536 | 0.0053 | 0.0028 | -08.669 | 031.37 | |

HSAT TEST 69

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 69
RUN 007 MACH NO 0.603 RNL 06930194 Q 0899 PSF TD 572

COEFFICIENTS

| ALPHA | N | PN | L | D | A | AU | V | YN | RN | AB | CP | PD | PNT |
|--------|---------|---------|---------|--------|---------|--------|---------|---------|--------|--------|---------|--------|-----|
| 06.15 | 1.0056 | -02.899 | 0.9595 | 0.4821 | 0.3764 | 0.3794 | 0.0220 | -0.1522 | 0.0071 | 0.0030 | -08.757 | 031.44 | 055 |
| 06.52 | 1.0889 | -03.170 | 1.0387 | 0.5020 | 0.3809 | 0.3832 | 0.0160 | -0.1509 | 0.0037 | 0.0023 | -08.845 | 031.41 | 056 |
| 06.91 | 1.1355 | -03.303 | 1.0814 | 0.5143 | 0.3805 | 0.3836 | 0.0210 | -0.1138 | 0.0066 | 0.0030 | -08.839 | 031.37 | 057 |
| 07.24 | 1.2259 | -03.358 | 1.1687 | 0.5282 | 0.3767 | 0.3802 | 0.0314 | -0.1672 | 0.0047 | 0.0036 | -08.816 | 031.31 | 058 |
| 07.60 | 1.2745 | -03.772 | 1.2136 | 0.5404 | 0.3752 | 0.3804 | 0.0206 | -0.1682 | 0.0049 | 0.0052 | -08.991 | 031.31 | 059 |
| 07.96 | 1.3918 | -04.088 | 1.3272 | 0.5586 | 0.3673 | 0.3771 | 0.0073 | -0.0604 | 0.0045 | 0.0065 | -08.925 | 031.34 | 060 |
| 08.35 | 1.3988 | -04.187 | 1.3296 | 0.5730 | 0.3738 | 0.3816 | 0.007 | -0.1510 | 0.0088 | 0.0078 | -09.093 | 031.34 | 061 |
| 08.69 | 1.5033 | -04.445 | 1.4303 | 0.5921 | 0.3693 | 0.3811 | 0.032 | -0.1124 | 0.0073 | 0.0118 | -08.983 | 031.34 | 062 |
| 09.02 | 1.6372 | -04.873 | 1.5584 | 0.6282 | 0.3743 | 0.3826 | 0.0311 | -0.1363 | 0.0036 | 0.0083 | -09.042 | 031.28 | 063 |
| 09.30 | 1.6455 | -04.918 | 1.5648 | 0.6267 | 0.3656 | 0.3746 | 0.042 | -0.0649 | 0.0073 | 0.0090 | -09.081 | 031.31 | 064 |
| 09.53 | 1.7689 | -05.227 | 1.6838 | 0.6566 | 0.3666 | 0.3772 | 0.0153 | -0.0009 | 0.0085 | 0.0106 | -08.977 | 031.31 | 065 |
| 09.74 | 1.7522 | -05.191 | 1.6651 | 0.6558 | 0.3657 | 0.3733 | 0.0214 | -0.0238 | 0.0074 | 0.0075 | -09.000 | 031.34 | 066 |
| 09.89 | 1.8836 | -05.322 | 1.7920 | 0.6882 | 0.3701 | 0.3779 | 0.0127 | -0.0167 | 0.0087 | 0.0078 | -08.905 | 031.34 | 067 |
| 10.02 | 1.8367 | -05.441 | 1.7442 | 0.6862 | 0.3703 | 0.3779 | 0.0196 | -0.0196 | 0.0098 | 0.0076 | -08.999 | 031.31 | 068 |
| 10.26 | 1.9115 | -05.464 | 1.8159 | 0.6993 | 0.3650 | 0.3749 | 0.0176 | -0.0151 | 0.0108 | 0.0099 | -08.968 | 031.34 | 069 |
| 10.47 | 1.9764 | -05.790 | 1.8787 | 0.7093 | 0.3561 | 0.3684 | 0.0162 | -0.0117 | 0.0077 | 0.0123 | -08.901 | 031.31 | 070 |
| 10.57 | 1.9831 | -05.831 | 1.8835 | 0.7168 | 0.3591 | 0.3673 | 0.0095 | 0.0479 | 0.0065 | 0.0082 | -08.933 | 031.34 | 071 |
| 10.59 | 2.0145 | -05.987 | 1.9138 | 0.7251 | 0.3609 | 0.3716 | 0.0093 | 0.0267 | 0.0064 | 0.0107 | -09.029 | 031.28 | 072 |
| 10.57 | 1.9632 | -05.796 | 1.8644 | 0.7107 | 0.3566 | 0.3655 | 0.0377 | -0.0326 | 0.0055 | 0.0090 | -08.969 | 031.31 | 073 |
| 10.65 | 4.8860 | -14.298 | 4.8381 | 0.6997 | -0.2068 | 0.8946 | 0.0362 | 0.0633 | 0.0199 | 1.1015 | -08.894 | 027.15 | 074 |
| 10.47 | 1.9934 | -05.641 | 1.8918 | 0.7328 | 0.3749 | 0.3844 | -0.0013 | 0.0332 | 0.0108 | 0.0075 | -08.901 | 031.34 | 075 |
| -00.51 | 0.0071 | -00.027 | 0.0072 | 0.3763 | 0.3763 | 0.3764 | 0.0110 | -0.0975 | 0.0025 | 0.0019 | -11.448 | 031.31 | 076 |
| -00.01 | 0.0071 | -00.027 | 0.0071 | 0.3708 | 0.3708 | 0.3720 | 0.0395 | -0.0871 | 0.0025 | 0.0012 | -11.379 | 031.34 | 077 |
| 00.02 | -0.0042 | -00.030 | -0.0043 | 0.3720 | 0.3720 | 0.3732 | 0.0464 | -0.1702 | 0.0065 | 0.0012 | -21.941 | 031.28 | 078 |

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89
RUN 009 MACH NO 0.808 RNL 07667581 Q 1305 PSF TO 594

10/17/62

COEFFICIENTS

| ALPHA | V | PW | L | D | A | AU | Y | YM | RM | AB | CP | PO | PNT | |
|--------|---------|---------|----------|--------|--------|--------|---------|---------|---------|--------|---------|---------|--------|-----|
| 30.22 | -0.2314 | -30.388 | 0.0296 | 0.4676 | 0.4675 | 0.4785 | 0.0198 | -0.0848 | -0.3022 | 0.3110 | -0.458 | 030.54 | 005 | |
| 30.22 | 0.2457 | -30.123 | 0.0439 | 0.4709 | 0.4707 | 0.4866 | 0.0203 | -0.1647 | 0.0312 | 0.3139 | -0.466 | 030.57 | 006 | |
| -10.76 | -2.1481 | 36.609 | -0.0233 | 0.8593 | 0.8592 | 0.4666 | -0.0163 | -0.1169 | 0.0304 | 0.2128 | -0.9146 | 030.44 | 000 | |
| -10.39 | -2.3474 | 36.402 | -1.9292 | 0.8303 | 0.8302 | 0.4925 | -0.0182 | -0.0259 | 0.0302 | 0.2333 | -0.9500 | 030.44 | 008 | |
| -10.26 | -1.9383 | 26.105 | -1.8262 | 0.8022 | 0.8022 | 0.4728 | -0.0185 | -0.0385 | 0.0301 | 0.2227 | -0.9568 | 030.54 | 009 | |
| -09.71 | -1.8403 | 35.796 | -1.7334 | 0.7809 | 0.7809 | 0.4773 | -0.0112 | -0.0618 | 0.0028 | 0.2207 | -0.9569 | 030.47 | 010 | |
| -09.37 | -1.7783 | 35.563 | -1.6765 | 0.7627 | 0.7627 | 0.5034 | 0.0331 | -0.0932 | 0.0037 | 0.2208 | -0.9534 | 030.41 | 011 | |
| -09.32 | -1.7166 | 35.361 | -1.6208 | 0.7395 | 0.7395 | 0.4763 | 0.0954 | 0.0276 | 0.0490 | 0.0310 | 0.3191 | -0.9488 | 030.41 | 012 |
| -08.54 | -1.5868 | 34.599 | -1.4964 | 0.7144 | 0.7144 | 0.4814 | 0.0361 | -0.0373 | 0.0311 | 0.3197 | -0.9571 | 030.63 | 013 | |
| -08.29 | -1.5538 | 34.906 | -1.4673 | 0.7057 | 0.7057 | 0.4868 | 0.0507 | 0.0206 | 0.0649 | 0.0050 | 0.3190 | -0.9593 | 030.50 | 014 |
| -07.96 | -1.4029 | 34.463 | -1.3220 | 0.6773 | 0.6773 | 0.4881 | 0.0505 | 0.0022 | 0.0176 | 0.0022 | 0.3184 | -0.9666 | 030.41 | 015 |
| -07.60 | -1.3136 | 34.149 | -1.2382 | 0.6523 | 0.6523 | 0.4828 | 0.0124 | -0.0409 | 0.0058 | 0.3187 | -0.9595 | 030.34 | 016 | |
| -07.27 | -1.2867 | 34.009 | -1.2138 | 0.6377 | 0.6377 | 0.4791 | 0.0461 | 0.0003 | 0.0970 | 0.0029 | 0.3170 | -0.9481 | 030.44 | 017 |
| -06.90 | -1.2328 | 33.871 | -1.1660 | 0.6261 | 0.6261 | 0.4815 | 0.5005 | -0.0086 | 0.0875 | 0.0039 | 0.3190 | -0.9539 | 030.47 | 018 |
| -06.57 | -1.1173 | 33.449 | -1.0549 | 0.6068 | 0.6068 | 0.4822 | 0.5018 | -0.0001 | 0.0456 | 0.0055 | 0.3196 | -0.9560 | 030.39 | 019 |
| -06.23 | -1.0438 | 33.296 | -0.9852 | 0.5936 | 0.5936 | 0.4831 | 0.5029 | 0.0138 | 0.0380 | 0.0024 | 0.3198 | -0.9593 | 030.44 | 020 |
| -05.85 | -0.9735 | 33.013 | -0.9163 | 0.5790 | 0.5790 | 0.4826 | 0.5012 | 0.0124 | 0.0409 | 0.0058 | 0.3187 | -0.9431 | 030.54 | 021 |
| -05.55 | -0.9072 | 32.506 | -0.7676 | 0.5577 | 0.5577 | 0.4861 | 0.5037 | 0.0265 | 0.0156 | 0.0070 | 0.3176 | -0.9402 | 030.44 | 022 |
| -05.18 | -0.8168 | 32.346 | -0.7260 | 0.5451 | 0.5451 | 0.4822 | 0.4981 | 0.0223 | 0.0146 | 0.0064 | 0.3159 | -0.9266 | 030.54 | 023 |
| -04.82 | -0.7692 | 32.146 | -0.6760 | 0.5344 | 0.5344 | 0.4822 | 0.4981 | 0.0223 | 0.0146 | 0.0064 | 0.3159 | -0.9266 | 030.54 | 024 |
| -04.42 | -0.6950 | 32.01 | -0.6556 | 0.5237 | 0.5237 | 0.4884 | 0.4984 | 0.0222 | 0.0118 | 0.0059 | 0.3159 | -0.9158 | 030.57 | 025 |
| -04.36 | -0.6328 | 31.897 | -0.5968 | 0.5308 | 0.5308 | 0.4873 | 0.5028 | 0.0116 | 0.0108 | 0.0051 | 0.3156 | -0.9108 | 030.41 | 026 |
| -03.73 | -0.5954 | 31.732 | -0.5627 | 0.5206 | 0.5206 | 0.4929 | 0.4978 | -0.0005 | 0.0361 | 0.0033 | 0.3149 | -0.837 | 030.41 | 027 |
| -03.34 | -0.5198 | 31.501 | -0.4901 | 0.5174 | 0.5174 | 0.4828 | 0.4971 | 0.0108 | 0.0397 | 0.0031 | 0.3142 | -0.7511 | 030.41 | 028 |
| -03.01 | -0.4344 | 31.285 | -0.43085 | 0.5023 | 0.5023 | 0.4822 | 0.4948 | 0.0022 | 0.0062 | 0.0032 | 0.3126 | -0.6987 | 030.54 | 029 |
| -02.63 | -0.3846 | 31.118 | -0.3619 | 0.5018 | 0.5018 | 0.4846 | 0.4969 | 0.0021 | 0.0124 | 0.0024 | 0.3122 | -0.6829 | 030.47 | 030 |
| -02.27 | -0.3375 | 30.946 | -0.3180 | 0.4999 | 0.4999 | 0.4869 | 0.5003 | 0.0063 | 0.0506 | 0.0017 | 0.3134 | -0.6518 | 030.41 | 031 |
| -01.94 | -0.2740 | 30.749 | -0.2576 | 0.4883 | 0.4883 | 0.4793 | 0.4920 | 0.0020 | 0.0328 | 0.0019 | 0.3127 | -0.6299 | 030.44 | 032 |
| -01.59 | -0.2253 | 30.591 | -0.2119 | 0.4866 | 0.4865 | 0.4755 | 0.4933 | 0.0217 | 0.0851 | 0.0022 | 0.3128 | -0.6149 | 030.44 | 033 |
| -01.24 | -0.1587 | 30.434 | -0.1683 | 0.4863 | 0.4863 | 0.4810 | 0.4920 | 0.0208 | 0.0669 | 0.0027 | 0.3111 | -0.5971 | 030.44 | 034 |
| -00.86 | -0.0924 | 30.242 | -0.0853 | 0.4791 | 0.4791 | 0.4716 | 0.4905 | 0.0053 | 0.0836 | 0.0002 | 0.3127 | -0.5756 | 030.44 | 035 |
| -00.54 | -0.0699 | 30.171 | -0.0654 | 0.4760 | 0.4760 | 0.4753 | 0.4875 | 0.0282 | 0.0867 | 0.0002 | 0.3122 | -0.5433 | 030.53 | 036 |
| -00.16 | -0.0167 | 30.032 | -0.0153 | 0.4792 | 0.4792 | 0.4792 | 0.4871 | 0.0166 | 0.026 | 0.0017 | 0.2019 | -0.576 | 030.63 | 037 |
| 00.17 | 0.0319 | -00.088 | -0.0305 | 0.4799 | 0.4799 | 0.4798 | 0.4890 | 0.0160 | 0.020 | 0.0005 | 0.3092 | -0.5652 | 030.46 | 038 |
| 00.56 | 0.0851 | -00.210 | -0.0804 | 0.4805 | 0.4805 | 0.4797 | 0.4910 | 0.0154 | 0.0295 | 0.0014 | 0.3113 | -0.5499 | 030.44 | 039 |
| 00.92 | 0.1429 | -00.349 | 0.1353 | 0.4755 | 0.4755 | 0.4733 | 0.4866 | 0.0152 | 0.1091 | 0.0018 | 0.3133 | -0.5133 | 030.44 | 040 |
| 01.25 | 0.1901 | -0.467 | 0.1798 | 0.4750 | 0.4750 | 0.4709 | 0.4835 | 0.0223 | 0.1140 | 0.0027 | 0.3126 | -0.4649 | 030.44 | 041 |
| 01.64 | 0.2249 | -0.553 | 0.2113 | 0.4788 | 0.4788 | 0.4726 | 0.4837 | 0.0259 | 0.1285 | 0.0029 | 0.3111 | -0.4770 | 030.47 | 042 |
| 01.99 | 0.2819 | -0.627 | 0.2653 | 0.4829 | 0.4829 | 0.4734 | 0.4851 | 0.0022 | 0.1662 | 0.0030 | 0.3117 | -0.7833 | 030.50 | 043 |
| 02.35 | 0.3268 | -00.669 | -0.3072 | 0.4857 | 0.4857 | 0.4727 | 0.4856 | 0.0170 | 0.1025 | 0.0046 | 0.3129 | -0.6052 | 030.44 | 044 |
| 02.70 | 0.4038 | -01.071 | 0.3810 | 0.4930 | 0.4930 | 0.4745 | 0.4856 | 0.0063 | 0.0696 | 0.0057 | 0.3112 | -0.6055 | 030.57 | 045 |
| 03.05 | 0.4689 | -01.270 | 0.4428 | 0.5017 | 0.4776 | 0.4887 | 0.0237 | 0.1541 | 0.0054 | 0.3112 | -0.6230 | 030.50 | 046 | |
| 03.35 | 0.5382 | -01.553 | 0.5092 | 0.5113 | 0.4816 | 0.4924 | 0.0151 | 0.1338 | 0.0063 | 0.3118 | -0.6044 | 030.44 | 047 | |
| 03.75 | 0.6032 | -01.659 | 0.5705 | 0.5179 | 0.4795 | 0.4917 | 0.0066 | 0.1129 | 0.0086 | 0.3123 | -0.6355 | 030.44 | 048 | |
| 04.12 | 0.6691 | -01.868 | 0.6330 | 0.5252 | 0.4793 | 0.4911 | 0.0174 | 0.1083 | 0.0072 | 0.3127 | -0.6481 | 030.44 | 049 | |
| 04.48 | 0.7360 | -02.062 | 0.6960 | 0.5394 | 0.4834 | 0.4956 | 0.0047 | 0.0955 | 0.0073 | 0.3123 | -0.6512 | 030.44 | 050 | |
| 04.84 | 0.7869 | -02.443 | 0.7435 | 0.5455 | 0.4808 | 0.4942 | 0.0108 | 0.0873 | 0.0087 | 0.3134 | -0.6658 | 030.44 | 051 | |
| 05.18 | 0.8581 | 02.467 | 0.8112 | 0.5559 | 0.4804 | 0.4955 | 0.0116 | 0.0873 | 0.0076 | 0.3151 | -0.7335 | 030.38 | 052 | |
| 05.56 | 0.9739 | -02.321 | 0.9229 | 0.5711 | 0.4789 | 0.4961 | 0.0136 | 0.1513 | 0.0093 | 0.3172 | -0.6000 | 030.44 | 053 | |
| 05.92 | 1.0436 | -03.031 | 0.9886 | 0.5862 | 0.4790 | 0.4962 | 0.0136 | 0.1172 | 0.0105 | 0.3164 | -0.6905 | 030.41 | 054 | |
| 06.28 | 1.1381 | -03.363 | 1.0786 | 0.6024 | 0.4808 | 0.4992 | 0.0092 | 0.0441 | 0.0105 | 0.3164 | -0.6976 | 030.41 | 055 | |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSWT TEST 89 | | | | | |
|---|--------|----------|--------|--------|----------|--------|---------|---------|--------|--------------|----------|--------|-----|--|--|
| RUN | 008 | MACH NO | 0.808 | RNL | 07667581 | Q | 1304 | PSF | TO | 594 | 10/17/62 | | | | |
| COEFFICIENTS | | | | | | | | | | | | | | | |
| ALPHA | | | | | | | | | | | | | | | |
| N | PH | L | D | A | AU | Y | YN | RM | AB | CP | P0 | PMT | | | |
| 36.64 | 1.1897 | -03.1550 | 1.1259 | 0.6166 | 0.4823 | 0.4990 | -0.0024 | -0.1045 | 0.0126 | 0.0167 | -09.065 | 030.44 | 056 | | |
| 07.00 | 1.2663 | -03.7869 | 1.1962 | 0.6321 | 0.4816 | 0.5000 | -0.0123 | -0.0769 | 0.0133 | 0.0164 | -09.105 | 030.41 | 057 | | |
| 07.36 | 1.3415 | -04.026 | 1.2691 | 0.6465 | 0.4885 | 0.4985 | -0.0103 | -0.0954 | 0.0126 | 0.0200 | -09.117 | 030.44 | 058 | | |
| 37.72 | 1.4224 | -04.192 | 1.3451 | 0.6665 | 0.4798 | 0.4991 | -0.0322 | -0.0606 | 0.0129 | 0.0193 | -09.167 | 030.41 | 059 | | |
| 38.10 | 1.4751 | -04.488 | 1.3928 | 0.6829 | 0.4798 | 0.4980 | -0.0379 | -0.0320 | 0.0117 | 0.0181 | -09.244 | 030.44 | 060 | | |
| 38.43 | 1.5900 | -04.446 | 1.5018 | 0.7121 | 0.4842 | 0.5047 | -0.0252 | -0.0550 | 0.0092 | 0.0205 | -0.259 | 030.41 | 061 | | |
| 08.79 | 1.6748 | -05.115 | 1.5814 | 0.7327 | 0.4825 | 0.5046 | -0.0239 | -0.0316 | 0.0069 | 0.0221 | -0.226 | 030.44 | 062 | | |
| 29.12 | 1.7581 | -05.369 | 1.6600 | 0.7513 | 0.4787 | 0.5013 | -0.0371 | -0.0616 | 0.0068 | 0.0226 | -0.278 | 030.41 | 063 | | |
| 39.37 | 1.8248 | -05.381 | 1.7224 | 0.7698 | 0.4790 | 0.5016 | -0.0239 | -0.0380 | 0.0073 | 0.0226 | -0.291 | 030.41 | 064 | | |
| 09.60 | 1.8669 | -05.132 | 1.7615 | 0.7803 | 0.4756 | 0.4993 | -0.0369 | -0.0202 | 0.0063 | 0.0237 | -09.327 | 030.44 | 065 | | |
| 09.78 | 1.8921 | -05.833 | 1.7843 | 0.7876 | 0.4731 | 0.4974 | -0.0300 | -0.0087 | 0.0052 | 0.0243 | -0.560 | 030.41 | 066 | | |
| 09.93 | 1.9447 | -05.971 | 1.8336 | 0.8033 | 0.4550 | 0.4991 | -0.0429 | -0.0075 | 0.0052 | 0.0242 | -0.328 | 030.44 | 067 | | |
| 10.36 | 2.0114 | -06.177 | 1.8976 | 0.8190 | 0.4749 | 0.5015 | -0.0466 | -0.0039 | 0.0051 | 0.0266 | -09.329 | 030.41 | 068 | | |
| 10.35 | 2.0714 | -06.238 | 1.9522 | 0.8495 | 0.4761 | 0.5003 | -0.0577 | -0.0019 | 0.0053 | 0.0242 | -0.296 | 030.44 | 069 | | |
| 10.51 | 2.0997 | -06.415 | 1.9785 | 0.8465 | 0.4715 | 0.4985 | -0.0235 | -0.0181 | 0.0000 | 0.0210 | -0.282 | 030.44 | 070 | | |
| 10.51 | 2.1161 | -06.478 | 1.9945 | 0.8505 | 0.4726 | 0.4985 | -0.0513 | 0.0104 | 0.0033 | 0.0259 | -09.330 | 030.41 | 071 | | |
| 10.58 | 2.1428 | -06.558 | 2.0195 | 0.8582 | 0.4727 | 0.4992 | -0.0517 | -0.0130 | 0.0028 | 0.0265 | -0.298 | 030.36 | 072 | | |
| 10.61 | 2.1332 | -06.551 | 2.0106 | 0.8529 | 0.4683 | 0.4957 | -0.0513 | -0.0372 | 0.0062 | 0.0275 | -0.330 | 030.44 | 073 | | |
| 10.52 | 2.1237 | -06.563 | 2.0015 | 0.8537 | 0.4737 | 0.4985 | -0.0475 | -0.0361 | 0.0035 | 0.0247 | -09.389 | 030.41 | 074 | | |
| 10.49 | 2.0816 | -06.620 | 1.9624 | 0.8387 | 0.4708 | 0.4977 | -0.0273 | -0.0058 | 0.0022 | 0.0269 | -0.369 | 030.44 | 075 | | |
| 30.04 | 0.0100 | -00.037 | 0.0096 | 0.4635 | 0.4635 | 0.4774 | -0.0244 | -0.1190 | 0.0011 | 0.0140 | -11.298 | 030.36 | 076 | | |
| 00.07 | 0.0163 | -00.055 | 0.0138 | 0.4627 | 0.4627 | 0.4766 | -0.0357 | -0.1081 | 0.0003 | 0.0139 | -11.641 | 030.41 | 077 | | |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | | | HSWT TEST 89 | | | | | | | | | | | |
|--|---------|----------|---------|--------|--------|--------|--------|---------|---------|--------|---------|--------------|-----|--|--|--|--|--|--|--|--|--|--|
| RUN 009 MACH NO 1.321 RNL 07307867 Q 1450 PSF TD 597 | | | | | | | | | | | | 10/17/62 | | | | | | | | | | | |
| COEFFICIENTS | | | | | | | | | | | | | | | | | | | | | | | |
| ALPHA | N | PM | L | D | A | AU | Y | YM | RN | AB | CP | P0 | PMT | | | | | | | | | | |
| 00.27 | 0.3333 | -30.116 | 0.0291 | 0.8803 | 0.8801 | 1.0414 | 0.0252 | -0.0765 | -0.0017 | 0.1613 | -10.398 | 026.73 | 005 | | | | | | | | | | |
| 00.25 | 0.0171 | -00.066 | 0.0134 | 0.8684 | 0.8664 | 1.0264 | 0.0326 | -0.0909 | -0.0021 | 0.1580 | -11.774 | 026.64 | | | | | | | | | | | |
| -10.46 | -2.3922 | 36.283 | -1.5001 | 1.2323 | 0.8670 | 1.0561 | 0.0457 | -0.1574 | 0.0022 | 0.1891 | -09.123 | 026.63 | 007 | | | | | | | | | | |
| -10.12 | -1.9911 | 36.056 | -1.2069 | 1.2081 | 0.8777 | 1.0588 | 0.0340 | -0.0977 | -0.0041 | 0.1872 | -09.240 | 026.80 | 008 | | | | | | | | | | |
| -09.76 | -1.9112 | 25.895 | -1.7351 | 1.1865 | 0.8732 | 1.0615 | 0.0329 | -0.0963 | -0.0007 | 0.1863 | -09.371 | 026.70 | 009 | | | | | | | | | | |
| -09.38 | -1.7718 | 05.551 | -1.6357 | 1.1510 | 0.8739 | 1.0591 | 0.0280 | -0.0930 | -0.0003 | 0.1852 | -09.516 | 026.83 | 010 | | | | | | | | | | |
| -09.35 | -1.7312 | 35.455 | -1.5713 | 1.1438 | 0.8735 | 1.0650 | 0.0273 | -0.0701 | 0.0000 | 0.1855 | -09.573 | 026.83 | 011 | | | | | | | | | | |
| -08.67 | -1.6090 | 35.121 | -1.5576 | 1.1616 | 0.8868 | 1.0658 | 0.0259 | -0.1158 | 0.0003 | 0.1832 | -09.669 | 026.83 | 012 | | | | | | | | | | |
| -08.32 | -1.5651 | 34.988 | -1.4603 | 1.1035 | 0.8834 | 1.0684 | 0.0245 | -0.0616 | -0.0029 | 0.1820 | -09.482 | 026.73 | 013 | | | | | | | | | | |
| -07.97 | -1.4674 | 04.706 | -1.3303 | 1.0813 | 0.8864 | 1.0673 | 0.0295 | -0.0886 | -0.0008 | 0.1809 | -09.740 | 026.77 | 014 | | | | | | | | | | |
| -07.61 | -1.4025 | 04.561 | -1.2224 | 1.0664 | 0.8864 | 1.0671 | 0.0244 | -0.0817 | -0.0002 | 0.1786 | -09.886 | 026.77 | 015 | | | | | | | | | | |
| -07.27 | -1.2948 | 34.295 | -1.1116 | 1.0474 | 0.8907 | 1.0682 | 0.0258 | -0.0915 | -0.0015 | 0.1775 | -10.080 | 026.77 | 016 | | | | | | | | | | |
| -06.91 | -1.2349 | 34.113 | -1.1193 | 1.0288 | 0.8866 | 1.0620 | 0.0311 | -0.0652 | -0.0007 | 0.1753 | -10.118 | 026.86 | 017 | | | | | | | | | | |
| -06.57 | -1.1487 | 03.841 | -1.0391 | 1.0170 | 0.8913 | 1.0616 | 0.0258 | -0.0814 | -0.0014 | 0.1700 | -10.156 | 026.96 | 018 | | | | | | | | | | |
| -06.24 | -0.9932 | 33.636 | -0.9699 | 1.0036 | 0.8900 | 1.0621 | 0.0212 | -0.0337 | -0.0017 | 0.1721 | -10.196 | 026.90 | 019 | | | | | | | | | | |
| -05.95 | -1.0201 | 03.436 | -0.9230 | 0.9989 | 0.8995 | 1.0724 | 0.0231 | -0.1011 | -0.0012 | 0.1729 | -10.233 | 026.64 | 020 | | | | | | | | | | |
| -05.55 | -0.5442 | 03.247 | -0.8334 | 0.9799 | 0.8923 | 1.0676 | 0.0179 | -0.0905 | -0.0005 | 0.1748 | -10.446 | 026.51 | 021 | | | | | | | | | | |
| -05.18 | -0.8690 | 03.005 | -0.7849 | 0.9672 | 0.8923 | 1.0548 | 0.0264 | -0.0908 | -0.0008 | 0.1625 | -10.504 | 026.67 | 022 | | | | | | | | | | |
| -04.82 | -0.8153 | 02.827 | -0.7373 | 0.9596 | 0.8933 | 1.0550 | 0.0184 | -0.0955 | 0.0007 | 0.1607 | -10.533 | 026.70 | 023 | | | | | | | | | | |
| -04.42 | -0.7540 | 32.619 | -0.6361 | 0.9460 | 0.8905 | 1.0590 | 0.0269 | -0.0731 | -0.0001 | 0.1695 | -10.554 | 026.83 | 024 | | | | | | | | | | |
| -04.06 | -0.7015 | 32.437 | -0.6367 | 0.9460 | 0.8906 | 1.0590 | 0.0212 | -0.0737 | -0.0017 | 0.1721 | -10.196 | 026.90 | 019 | | | | | | | | | | |
| -03.72 | -0.6275 | 02.221 | -0.5677 | 0.9390 | 0.9002 | 1.0571 | 0.0094 | -0.0811 | -0.0003 | 0.1569 | -10.751 | 026.64 | 020 | | | | | | | | | | |
| -03.34 | -0.5391 | 01.932 | -0.4960 | 0.9263 | 0.8964 | 1.0529 | 0.0121 | -0.0615 | -0.0002 | 0.1655 | -10.836 | 026.83 | 021 | | | | | | | | | | |
| -02.99 | -0.4926 | 01.777 | -0.4453 | 0.9197 | 0.8922 | 1.0552 | 0.0082 | -0.0670 | -0.0006 | 0.1599 | -10.957 | 026.90 | 028 | | | | | | | | | | |
| -02.61 | -0.4376 | 01.587 | -0.3961 | 0.9204 | 0.9015 | 1.0599 | 0.0117 | -0.0608 | 0.0008 | 0.1584 | -11.020 | 026.80 | 029 | | | | | | | | | | |
| -02.26 | -0.3657 | 01.327 | -0.3127 | 0.9127 | 0.8900 | 1.0659 | 0.0089 | -0.0646 | -0.0008 | 0.1689 | -11.077 | 026.70 | 030 | | | | | | | | | | |
| -01.93 | -0.3068 | 01.111 | -0.2764 | 0.9067 | 0.8927 | 1.0659 | 0.0309 | -0.0742 | -0.0008 | 0.1689 | -11.077 | 026.70 | 031 | | | | | | | | | | |
| -01.61 | -0.2582 | 00.938 | -0.2330 | 0.9004 | 0.8915 | 1.0618 | 0.0253 | -0.0743 | -0.0016 | 0.1683 | -11.035 | 026.64 | 026 | | | | | | | | | | |
| -01.21 | -0.1799 | 00.701 | -0.1616 | 0.8951 | 0.8915 | 1.0577 | 0.0335 | -0.0559 | -0.0016 | 0.1667 | -11.036 | 026.77 | 032 | | | | | | | | | | |
| -00.86 | -0.1250 | 00.510 | -0.1116 | 0.8917 | 0.8899 | 1.0567 | 0.0385 | -0.1058 | -0.0030 | 0.1668 | -12.396 | 026.83 | 034 | | | | | | | | | | |
| -00.52 | -0.0507 | 00.259 | -0.0427 | 0.8939 | 0.8894 | 1.0635 | 0.0331 | -0.1025 | -0.0022 | 0.1701 | -15.497 | 026.73 | 035 | | | | | | | | | | |
| -00.20 | -0.0115 | 00.094 | -0.0093 | 0.0166 | 0.8869 | 1.0895 | 0.0060 | -0.0652 | -0.0025 | 0.1672 | -25.462 | 026.80 | 036 | | | | | | | | | | |
| 00.53 | 0.0842 | -0.0205 | 0.0160 | 0.8877 | 0.8869 | 1.0558 | 0.0316 | -0.0753 | -0.0011 | 0.1670 | 00.516 | 026.86 | 037 | | | | | | | | | | |
| 00.89 | 0.1291 | -0.0364 | 0.0154 | 0.8876 | 0.8857 | 1.0504 | 0.0309 | -0.1015 | -0.0014 | 0.1688 | -0.383 | 026.73 | 038 | | | | | | | | | | |
| 01.22 | 0.2052 | -0.0585 | 0.0164 | 0.8901 | 0.8860 | 1.0526 | 0.0334 | -0.0912 | -0.0019 | 0.1667 | -0.568 | 026.77 | 039 | | | | | | | | | | |
| 01.59 | 0.2750 | -0.0827 | 0.0203 | 0.8917 | 0.8864 | 1.0499 | 0.0329 | -0.1110 | -0.0016 | 0.1655 | -0.914 | 026.80 | 040 | | | | | | | | | | |
| 03.68 | 0.6440 | -0.0274 | 0.0165 | 0.8774 | 0.8821 | 1.0536 | 0.0291 | -0.0933 | -0.0010 | 0.1644 | -0.315 | 026.77 | 041 | | | | | | | | | | |
| 02.27 | 0.4034 | 01.270 | 0.3693 | 0.8938 | 0.8938 | 1.0449 | 0.0280 | -0.1067 | -0.0007 | 0.1663 | -0.956 | 026.83 | 042 | | | | | | | | | | |
| 04.38 | 0.7835 | -0.2545 | 0.7139 | 0.9384 | 0.8811 | 1.0557 | 0.0333 | -0.0916 | -0.0013 | 0.1670 | -0.659 | 026.77 | 044 | | | | | | | | | | |
| 04.77 | 0.8572 | -0.2773 | 0.7005 | 0.9557 | 0.8815 | 1.0595 | 0.0319 | -0.1100 | -0.0019 | 0.1720 | -0.829 | 026.80 | 045 | | | | | | | | | | |
| 03.01 | 0.5370 | -0.1717 | 0.6899 | 0.9072 | 0.8802 | 1.0475 | 0.0433 | -0.0990 | 0.0002 | 0.1673 | -0.714 | 026.73 | 051 | | | | | | | | | | |
| 03.34 | 0.5792 | -0.0866 | 0.5669 | 0.9143 | 0.8821 | 1.0523 | 0.0289 | -0.0438 | -0.1253 | 0.0036 | 0.1756 | -0.76 | 046 | | | | | | | | | | |
| 03.63 | 0.6440 | -0.0274 | 0.5559 | 0.9229 | 0.8834 | 1.0517 | 0.0291 | -0.0933 | -0.0010 | 0.1684 | -0.783 | 026.73 | 047 | | | | | | | | | | |
| 04.03 | 0.7094 | -0.02315 | 0.6558 | 0.9285 | 0.8866 | 1.0536 | 0.0376 | -0.0940 | 0.0013 | 0.1720 | -0.914 | 026.73 | 048 | | | | | | | | | | |
| 04.38 | 0.7835 | -0.2545 | 0.7139 | 0.9384 | 0.8811 | 1.0557 | 0.0333 | -0.0916 | -0.0013 | 0.1674 | -0.988 | 026.77 | 049 | | | | | | | | | | |
| 04.77 | 0.8572 | -0.2773 | 0.7005 | 0.9557 | 0.8815 | 1.0595 | 0.0319 | -0.1100 | -0.0019 | 0.1720 | -0.829 | 026.80 | 045 | | | | | | | | | | |
| 03.01 | 0.9414 | -0.0339 | 0.5669 | 0.9143 | 0.8821 | 1.0523 | 0.0289 | -0.0438 | -0.1253 | 0.0036 | 0.1756 | -0.76 | 046 | | | | | | | | | | |
| 03.34 | 0.6061 | -0.0230 | 0.9165 | 0.9002 | 0.8830 | 1.0420 | 0.0420 | -0.1141 | 0.0037 | 0.1781 | -0.754 | 026.70 | 052 | | | | | | | | | | |
| 03.63 | 1.0639 | -0.03433 | 0.9680 | 0.9904 | 0.8866 | 1.0651 | 0.0392 | -0.072 | 0.0028 | 0.1785 | -0.802 | 026.80 | 053 | | | | | | | | | | |
| 04.03 | 1.1525 | -0.03701 | 1.0495 | 1.0085 | 0.8890 | 1.0690 | 0.0408 | -0.1026 | 0.0038 | 0.1800 | -0.756 | 026.80 | 054 | | | | | | | | | | |
| 04.38 | 1.2083 | -0.03871 | 1.0986 | 1.0211 | 0.8867 | 1.0712 | 0.0323 | -0.0863 | 0.0031 | 0.1825 | -0.732 | 026.73 | 055 | | | | | | | | | | |

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89
 RUN 009 MACH NO 1.021 RN/L 07307867 Q 1450 PSF TO 597
 HSM/T TEST 89

| ALPHA | COEFFICIENTS | | | | | | 10/17/62 | | | | | | |
|-------|--------------|---------|--------|--------|--------|--------|----------|---------|---------|--------|---------|--------|-----|
| | N | PW | L | D | A | AU | V | YM | RN | AB | CP | PO | PNT |
| 06.86 | 1.29117 | -04.106 | 1.1754 | 1.0469 | 0.8926 | 1.0724 | 0.0262 | -0.0596 | 0.0037 | 0.1799 | -09.662 | 026.77 | 056 |
| 07.20 | 1.3536 | -04.274 | 1.2294 | 1.0556 | 0.8909 | 1.0715 | 0.0210 | -0.0567 | 0.0040 | 0.1807 | -09.594 | 026.80 | 057 |
| 07.66 | 1.4379 | -04.325 | 1.3061 | 1.0761 | 0.8925 | 1.0742 | 0.0223 | -0.0441 | 0.0043 | 0.1817 | -09.560 | 026.73 | 058 |
| 08.02 | 1.5370 | -04.773 | 1.3974 | 1.0983 | 0.8925 | 1.0741 | 0.0233 | -0.0455 | 0.0047 | 0.1816 | -09.434 | 026.70 | 059 |
| 08.38 | 1.6186 | -05.002 | 1.4709 | 1.1205 | 0.8944 | 1.0753 | 0.0174 | -0.0264 | 0.0020 | 0.1809 | -09.388 | 026.73 | 060 |
| 08.74 | 1.6749 | -05.194 | 1.5201 | 1.1350 | 0.8908 | 1.0761 | 0.0195 | -0.0656 | 0.0027 | 0.1853 | -09.422 | 026.77 | 061 |
| 09.08 | 1.7568 | -05.395 | 1.5955 | 1.1490 | 0.8829 | 1.0726 | 0.0064 | -0.0027 | 0.0022 | 0.1877 | -09.329 | 026.77 | 062 |
| 09.34 | 1.8352 | -05.550 | 1.6673 | 1.1704 | 0.8842 | 1.0720 | 0.0152 | -0.0065 | -0.0017 | 0.1878 | -09.187 | 026.73 | 063 |
| 09.60 | 1.8751 | -05.654 | 1.7018 | 1.1818 | 0.8814 | 1.0696 | 0.0385 | -0.0152 | 0.0007 | 0.1882 | -09.161 | 026.67 | 064 |
| 09.78 | 1.9458 | -05.646 | 1.7679 | 1.1986 | 0.8809 | 1.0687 | 0.0087 | 0.0204 | 0.0020 | 0.1878 | -09.127 | 026.70 | 065 |
| 09.96 | 1.9803 | -05.557 | 1.7979 | 1.2117 | 0.8826 | 1.0660 | 0.0182 | -0.0067 | 0.0025 | 0.1835 | -09.139 | 026.77 | 066 |
| 10.09 | 2.0173 | -06.072 | 1.8322 | 1.2107 | 0.8789 | 1.0651 | 0.0017 | 0.1279 | 0.0026 | 0.1861 | -09.145 | 026.73 | 067 |
| 10.36 | 2.0568 | -06.149 | 1.8651 | 1.2356 | 0.8802 | 1.0634 | 0.0261 | 0.0452 | 0.0032 | 0.1832 | -09.082 | 026.73 | 068 |
| 10.52 | 2.1132 | -06.254 | 1.9180 | 1.2458 | 0.8748 | 1.0580 | 0.0172 | 0.0909 | 0.0010 | 0.1833 | -08.991 | 026.80 | 069 |
| 10.60 | 2.1351 | -06.312 | 1.9371 | 1.2582 | 0.8784 | 1.0640 | 0.0098 | 0.1203 | 0.0036 | 0.1855 | -08.981 | 026.70 | 070 |
| 10.65 | 2.1471 | -06.363 | 1.9483 | 1.2571 | 0.8754 | 1.0591 | 0.0097 | 0.0914 | 0.0023 | 0.1837 | -09.006 | 026.73 | 071 |
| 10.68 | 2.1426 | -06.334 | 1.9443 | 1.2520 | 0.8701 | 1.0599 | 0.0063 | 0.0901 | 0.0030 | 0.1848 | -08.980 | 026.77 | 072 |
| 10.63 | 2.1517 | -06.320 | 1.9532 | 1.2583 | 0.8764 | 1.0608 | 0.0068 | 0.0680 | -0.0011 | 0.1844 | -08.923 | 026.77 | 073 |
| 00.10 | 0.0127 | -00.016 | 0.0112 | 0.8769 | 0.8769 | 1.0616 | 0.0567 | -0.1516 | -0.0027 | 0.1667 | -03.948 | 026.73 | 074 |
| 00.10 | 0.0327 | -00.079 | 0.0312 | 0.8761 | 0.8760 | 1.0605 | 0.0496 | -0.1234 | -0.0032 | 0.1685 | -07.386 | 026.67 | 075 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 69 | | | | | | | | | | | | HSWT TEST 69 | | | | | |
|---|---------------|---------------|---------|--------|--------|----------|--------|---------|---------|---------|-----------|--------------|---------|-----|---------|-----|---------|
| RUN 013 | MACH NO 1.017 | RNVL 07236308 | Q 1644 | PSF | TO 600 | 10/17/62 | | | | | | | | | | | |
| COEFFICIENTS | | | | | | | | | | | | | | | | | |
| ALPHA | Y | PY | L | D | A | AU | V | YM | AM | AB | CP | P0 | PNT | P0 | PNT | P0 | PNT |
| 30.34 | -0.0258 | 00.-073 | 0.-0222 | 0.5923 | 0.5921 | 0.6525 | 0.0113 | -0.0098 | -0.0003 | 0.-0603 | 0.026.-03 | 005 | 026.-03 | 005 | 026.-03 | 005 | 026.-03 |
| 30.34 | 0.0301 | 20.-358 | 0.-0265 | 0.5983 | 0.5982 | 0.6575 | 0.0115 | -0.0171 | -0.0013 | 0.-0594 | 0.026.-04 | 006 | 026.-04 | 006 | 026.-04 | 006 | 026.-04 |
| -10.83 | -0.8357 | -02.-053 | 0.-7106 | 0.7336 | 0.5870 | 0.6569 | 0.0115 | -0.0785 | -0.0043 | 0.-1099 | 0.026.-07 | 007 | 026.-07 | 007 | 026.-07 | 007 | 026.-07 |
| -10.64 | -0.8399 | -02.-758 | 0.-7167 | 0.7335 | 0.5886 | 0.6614 | 0.0879 | -0.0987 | -0.0043 | 0.-1028 | 0.026.-06 | 006 | 026.-06 | 006 | 026.-06 | 006 | 026.-06 |
| -10.47 | -0.8118 | -02.-725 | 0.-6921 | 0.7222 | 0.5844 | 0.6880 | 0.0877 | -0.0397 | -0.0026 | 0.-0996 | 0.026.-05 | 009 | 026.-05 | 009 | 026.-05 | 009 | 026.-05 |
| -10.28 | -0.7854 | -02.-694 | 0.-6678 | 0.7186 | 0.5879 | 0.6885 | 0.0750 | -0.0750 | -0.0035 | 0.-1005 | 0.026.-04 | 010 | 026.-04 | 010 | 026.-04 | 010 | 026.-04 |
| -10.09 | -0.7686 | -02.-626 | 0.-6548 | 0.7017 | 0.5821 | 0.6817 | 0.0757 | 0.0668 | -0.0032 | 0.-0997 | 0.026.-03 | 011 | 026.-03 | 011 | 026.-03 | 011 | 026.-03 |
| -09.86 | -0.7468 | -02.-541 | 0.-6349 | 0.6862 | 0.5771 | 0.6785 | 0.0888 | 0.0315 | -0.0001 | 0.-1013 | 0.026.-02 | 012 | 026.-02 | 012 | 026.-02 | 012 | 026.-02 |
| -09.67 | -0.7212 | -02.-525 | 0.-6139 | 0.6699 | 0.5769 | 0.6796 | 0.0771 | 0.0968 | -0.0020 | 0.-1026 | 0.026.-01 | 013 | 026.-01 | 013 | 026.-01 | 013 | 026.-01 |
| -09.48 | -0.6895 | -02.-461 | 0.-5845 | 0.6859 | 0.5803 | 0.6787 | 0.0800 | 0.0664 | -0.0019 | 0.-0984 | 0.026.-00 | 014 | 026.-00 | 014 | 026.-00 | 014 | 026.-00 |
| -09.27 | -0.6741 | -02.-404 | 0.-5719 | 0.6815 | 0.5805 | 0.6798 | 0.0796 | 0.0505 | -0.0020 | 0.-0993 | 0.026.-00 | 015 | 026.-00 | 015 | 026.-00 | 015 | 026.-00 |
| -09.10 | -0.6457 | -02.-374 | 0.-5455 | 0.6768 | 0.5819 | 0.6775 | 0.0719 | 0.0486 | -0.0025 | 0.-0955 | 0.026.-00 | 016 | 026.-00 | 016 | 026.-00 | 016 | 026.-00 |
| -08.91 | -0.6364 | -02.-329 | 0.-5370 | 0.6710 | 0.5797 | 0.6720 | 0.0677 | 0.0545 | -0.0031 | 0.-0953 | 0.026.-00 | 017 | 026.-00 | 017 | 026.-00 | 017 | 026.-00 |
| -08.70 | -0.6081 | -02.-277 | 0.-5128 | 0.6692 | 0.5840 | 0.6764 | 0.0634 | 0.0608 | -0.0012 | 0.-0924 | 0.026.-00 | 018 | 026.-00 | 018 | 026.-00 | 018 | 026.-00 |
| -08.51 | -0.5951 | -02.-227 | 0.-5024 | 0.6662 | 0.5826 | 0.6757 | 0.0627 | 0.0680 | -0.0007 | 0.-0911 | 0.026.-00 | 019 | 026.-00 | 019 | 026.-00 | 019 | 026.-00 |
| -08.32 | -0.5720 | -02.-203 | 0.-4822 | 0.6558 | 0.5791 | 0.6711 | 0.0687 | 0.0765 | -0.0002 | 0.-0920 | 0.026.-00 | 020 | 026.-00 | 020 | 026.-00 | 020 | 026.-00 |
| -08.13 | -0.5574 | -02.-148 | 0.-4690 | 0.6518 | 0.5849 | 0.6763 | 0.0653 | 0.0525 | -0.0023 | 0.-0894 | 0.026.-00 | 021 | 026.-00 | 021 | 026.-00 | 021 | 026.-00 |
| -07.95 | -0.5332 | -02.-101 | 0.-4471 | 0.6534 | 0.5853 | 0.6729 | 0.0677 | 0.0597 | -0.0008 | 0.-0876 | 0.026.-00 | 022 | 026.-00 | 022 | 026.-00 | 022 | 026.-00 |
| -07.77 | -0.5068 | -02.-059 | 0.-4231 | 0.6476 | 0.5845 | 0.6701 | 0.0619 | 0.0519 | -0.0013 | 0.-0853 | 0.026.-00 | 023 | 026.-00 | 023 | 026.-00 | 023 | 026.-00 |
| -07.58 | -0.4961 | -02.-011 | 0.-4128 | 0.6426 | 0.5826 | 0.6679 | 0.0593 | 0.0652 | -0.0008 | 0.-0853 | 0.026.-00 | 024 | 026.-00 | 024 | 026.-00 | 024 | 026.-00 |
| -07.40 | -0.4681 | -01.971 | -0.3885 | 0.6332 | 0.5878 | 0.6721 | 0.0554 | 0.0709 | -0.0024 | 0.-0863 | 0.026.-00 | 025 | 026.-00 | 025 | 026.-00 | 025 | 026.-00 |
| -07.22 | -0.4593 | -01.-007 | -0.3819 | 0.603 | 0.5873 | 0.6728 | 0.0583 | 0.0710 | -0.0010 | 0.-0853 | 0.026.-00 | 026 | 026.-00 | 026 | 026.-00 | 026 | 026.-00 |
| -07.01 | -0.4460 | -01.-837 | -0.3710 | 0.6312 | 0.5871 | 0.6692 | 0.0537 | 0.0996 | -0.0014 | 0.-0821 | 0.026.-00 | 027 | 026.-00 | 027 | 026.-00 | 027 | 026.-00 |
| -06.85 | -0.4285 | -01.-806 | -0.3556 | 0.6325 | 0.5856 | 0.6709 | 0.0473 | 0.0610 | -0.0006 | 0.-0854 | 0.026.-00 | 028 | 026.-00 | 028 | 026.-00 | 028 | 026.-00 |
| -06.64 | -0.4122 | -01.747 | -0.3419 | 0.6280 | 0.5842 | 0.6643 | 0.0457 | 0.0457 | -0.0015 | 0.-0801 | 0.026.-00 | 029 | 026.-00 | 029 | 026.-00 | 029 | 026.-00 |
| -06.46 | -0.3966 | -01.729 | -0.3256 | 0.6256 | 0.5850 | 0.6592 | 0.0507 | 0.0314 | -0.0022 | 0.-0802 | 0.026.-00 | 030 | 026.-00 | 030 | 026.-00 | 030 | 026.-00 |
| -06.26 | -0.3732 | -01.694 | -0.3279 | 0.6281 | 0.5886 | 0.6721 | 0.0512 | 0.0237 | -0.0026 | 0.-0815 | 0.026.-00 | 031 | 026.-00 | 031 | 026.-00 | 031 | 026.-00 |
| -06.10 | -0.3593 | -01.607 | -0.2922 | 0.6249 | 0.5886 | 0.6676 | 0.0508 | 0.0155 | -0.0005 | 0.-0790 | 0.026.-00 | 032 | 026.-00 | 032 | 026.-00 | 032 | 026.-00 |
| -05.90 | -0.3553 | -01.607 | -0.2224 | 0.6166 | 0.5953 | 0.6459 | 0.0459 | 0.0274 | -0.0007 | 0.-0682 | 0.026.-00 | 033 | 026.-00 | 033 | 026.-00 | 033 | 026.-00 |
| -05.71 | -0.3408 | -01.562 | -0.2808 | 0.6113 | 0.5910 | 0.6316 | 0.0398 | 0.0358 | -0.0015 | 0.-0779 | 0.026.-00 | 034 | 026.-00 | 034 | 026.-00 | 034 | 026.-00 |
| -05.51 | -0.3216 | -01.531 | -0.2092 | 0.6104 | 0.5858 | 0.6118 | 0.0434 | 0.0059 | -0.0014 | 0.-0760 | 0.026.-00 | 035 | 026.-00 | 035 | 026.-00 | 035 | 026.-00 |
| -05.32 | -0.3105 | -01.495 | -0.2545 | 0.6163 | 0.5901 | 0.6464 | 0.0464 | 0.0237 | -0.0003 | 0.-0743 | 0.026.-00 | 036 | 026.-00 | 036 | 026.-00 | 036 | 026.-00 |
| -05.15 | -0.2925 | -01.467 | -0.2379 | 0.6071 | 0.5962 | 0.6678 | 0.0488 | 0.0488 | -0.0014 | 0.-0715 | 0.026.-00 | 037 | 026.-00 | 037 | 026.-00 | 037 | 026.-00 |
| -04.90 | -0.2762 | -01.433 | -0.2224 | 0.6166 | 0.5953 | 0.6436 | 0.0459 | 0.0274 | -0.0007 | 0.-0682 | 0.026.-00 | 038 | 026.-00 | 038 | 026.-00 | 038 | 026.-00 |
| -04.70 | -0.2709 | -01.345 | -0.2215 | 0.6072 | 0.5947 | 0.6610 | 0.0341 | 0.0364 | -0.0022 | 0.-0658 | 0.026.-00 | 039 | 026.-00 | 039 | 026.-00 | 039 | 026.-00 |
| -04.53 | -0.2568 | -01.311 | -0.1582 | 0.6020 | 0.5910 | 0.6587 | 0.0349 | 0.0415 | -0.0013 | 0.-0666 | 0.026.-00 | 040 | 026.-00 | 040 | 026.-00 | 040 | 026.-00 |
| -04.31 | -0.2465 | -01.268 | -0.1957 | 0.6037 | 0.5873 | 0.6576 | 0.0386 | 0.0318 | -0.0015 | 0.-0703 | 0.026.-00 | 041 | 026.-00 | 041 | 026.-00 | 041 | 026.-00 |
| -04.11 | -0.2220 | -01.229 | -0.1789 | 0.6070 | 0.5926 | 0.6604 | 0.0345 | 0.0599 | -0.0017 | 0.-0678 | 0.026.-00 | 042 | 026.-00 | 042 | 026.-00 | 042 | 026.-00 |
| -03.95 | -0.2223 | -01.161 | -0.1810 | 0.6062 | 0.5923 | 0.6610 | 0.0455 | 0.0166 | -0.0020 | 0.-0653 | 0.026.-00 | 043 | 026.-00 | 043 | 026.-00 | 043 | 026.-00 |
| -03.76 | -0.2114 | -01.125 | -0.1719 | 0.6072 | 0.5947 | 0.6605 | 0.0341 | 0.0364 | -0.0022 | 0.-0638 | 0.026.-00 | 044 | 026.-00 | 044 | 026.-00 | 044 | 026.-00 |
| -03.57 | -0.1956 | -01.101 | -0.1582 | 0.6020 | 0.5910 | 0.6576 | 0.0376 | 0.0415 | -0.0014 | 0.-0666 | 0.026.-00 | 045 | 026.-00 | 045 | 026.-00 | 045 | 026.-00 |
| -03.38 | -0.1930 | -01.056 | -0.1576 | 0.6049 | 0.5946 | 0.6610 | 0.0452 | 0.0081 | -0.0002 | 0.-0634 | 0.026.-00 | 046 | 026.-00 | 046 | 026.-00 | 046 | 026.-00 |
| -03.20 | -0.1744 | -01.054 | -0.1408 | 0.6058 | 0.5970 | 0.6607 | 0.0416 | 0.0150 | -0.0022 | 0.-0636 | 0.026.-00 | 047 | 026.-00 | 047 | 026.-00 | 047 | 026.-00 |
| -02.98 | -0.1675 | -01.002 | -0.1363 | 0.6038 | 0.5958 | 0.6665 | 0.0306 | 0.0425 | -0.0019 | 0.-0607 | 0.026.-00 | 048 | 026.-00 | 048 | 026.-00 | 048 | 026.-00 |
| -02.79 | -0.1449 | -00.965 | -0.1158 | 0.6007 | 0.5944 | 0.6537 | 0.0204 | 0.0107 | -0.0017 | 0.-0593 | 0.026.-00 | 049 | 026.-00 | 049 | 026.-00 | 049 | 026.-00 |
| -02.60 | -0.1461 | -00.896 | -0.1221 | 0.5962 | 0.5916 | 0.6216 | 0.0211 | 0.0113 | -0.0003 | 0.-0616 | 0.026.-00 | 050 | 026.-00 | 050 | 026.-00 | 050 | 026.-00 |
| -02.44 | -0.1467 | -00.845 | -0.1213 | 0.5987 | 0.5930 | 0.6118 | 0.0343 | 0.0068 | -0.0006 | 0.-0588 | 0.026.-00 | 051 | 026.-00 | 051 | 026.-00 | 051 | 026.-00 |
| -02.23 | -0.1318 | -00.002 | -0.1088 | 0.5969 | 0.5960 | 0.5913 | 0.0206 | 0.0163 | -0.0028 | 0.-0595 | 0.026.-00 | 052 | 026.-00 | 052 | 026.-00 | 052 | 026.-00 |
| -01.87 | -0.1113 | -00.678 | -0.0919 | 0.5963 | 0.5930 | 0.5915 | 0.0205 | 0.0127 | -0.0020 | 0.-0585 | 0.026.-00 | 054 | 026.-00 | 054 | 026.-00 | 054 | 026.-00 |
| -01.68 | -0.1087 | -00.594 | -0.0912 | 0.5996 | 0.5967 | 0.5929 | 0.0206 | 0.0163 | -0.0028 | 0.-0595 | 0.026.-00 | 055 | 026.-00 | 055 | 026.-00 | 055 | 026.-00 |

| CNC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | | | HSMT TEST 89 | | | |
|---|---------|---------|---------|----------|--------|---------|---------|---------|----------|----------|---------|--------------|-----|-----|--|
| RUN NO | MACH NO | 1.017 | RNL | 07236308 | Q | 1444 | PSF | T0 | 600 | 10/11/62 | | | | | |
| COEFFICIENTS | | | | | | | | | | | | | | | |
| ALPHA | N | PH | L | D | A | AU | Y | YM | RW | AB | CP | P0 | P0 | PNT | |
| -31.50 | -0.0912 | -30.574 | -0.0757 | 0.5960 | 0.5939 | 0.6529 | 0.0285 | -0.0291 | -0.00032 | 0.02590 | 19.130 | 026.-73 | 056 | | |
| -31.31 | -0.1016 | -30.456 | -0.0881 | 0.5966 | 0.5944 | 0.6509 | 0.0107 | -0.0334 | -0.0015 | 0.02585 | 13.624 | 026.-73 | 057 | | |
| -31.09 | -0.3790 | -30.195 | -0.0678 | 0.5920 | 0.5906 | 0.6484 | 0.0183 | -0.0176 | -0.0014 | 0.02578 | 15.955 | 026.-77 | 058 | | |
| -30.91 | -0.0695 | -30.362 | -0.0602 | 0.5925 | 0.5915 | 0.6495 | 0.0179 | -0.0265 | -0.0030 | 0.02560 | 15.037 | 026.-73 | 059 | | |
| -30.72 | -0.0674 | -30.293 | -0.0599 | 0.5941 | 0.5933 | 0.6514 | 0.0142 | 0.0549 | -0.0013 | 0.02581 | 13.195 | 026.-70 | 060 | | |
| -30.53 | -0.0557 | -30.255 | -0.0502 | 0.5920 | 0.5915 | 0.6504 | 0.0259 | -0.0329 | -0.0007 | 0.02589 | 13.883 | 026.-77 | 061 | | |
| -30.35 | -0.0577 | -30.169 | -0.0541 | 0.5967 | 0.5946 | 0.6519 | 0.0188 | -0.0055 | -0.0001 | 0.02575 | 08.912 | 026.-73 | 062 | | |
| -30.16 | -0.0476 | -30.099 | -0.0459 | 0.5940 | 0.5939 | 0.6522 | 0.0193 | -0.0433 | -0.0004 | 0.02583 | 08.97 | 026.-66 | 063 | | |
| -30.03 | -0.0331 | -30.060 | -0.0334 | 0.5923 | 0.5923 | 0.6510 | -0.0051 | -0.0182 | -0.0010 | 0.02587 | 05.481 | 026.-64 | 064 | | |
| 30.22 | -0.0262 | -30.027 | -0.0286 | 0.5963 | 0.5963 | 0.6520 | 0.0274 | -0.1099 | -0.0002 | 0.02576 | -03.122 | 026.-67 | 065 | | |
| 30.41 | -0.0246 | -00.113 | -0.0288 | 0.5929 | 0.5931 | 0.6515 | 0.0150 | 0.0131 | -0.0003 | 0.02584 | -13.964 | 026.-73 | 066 | | |
| 30.60 | -0.0015 | 00.118 | -0.0077 | 0.5946 | 0.5946 | 0.6514 | 0.0113 | -0.0026 | -0.0003 | 0.02568 | -31.567 | 026.-77 | 067 | | |
| 30.79 | -0.0161 | 00.234 | -0.0223 | 0.5965 | 0.5967 | 0.6511 | 0.0215 | -0.0314 | 0.0003 | 0.02564 | -50.176 | 026.-73 | 068 | | |
| 30.98 | -0.0082 | 00.355 | -0.0019 | 0.5946 | 0.5945 | 0.6524 | 0.0206 | -0.0096 | 0.0007 | 0.02578 | 9.640 | 026.-77 | 069 | | |
| 01.17 | 0.0234 | 00.330 | 0.0112 | 0.5992 | 0.5989 | 0.6554 | 0.0137 | -0.0261 | 0.0012 | 0.02565 | 40.196 | 026.-73 | 070 | | |
| 01.36 | 0.0183 | 00.395 | 0.0061 | 0.5990 | 0.5987 | 0.6568 | 0.0095 | -0.0280 | 0.0002 | 0.02581 | 65.367 | 026.-70 | 071 | | |
| 01.55 | 0.0370 | 00.433 | 0.0209 | 0.5974 | 0.5974 | 0.6538 | 0.0086 | -0.081 | 0.0002 | 0.02571 | 35.529 | 026.-67 | 072 | | |
| 01.74 | 0.0460 | 00.259 | 0.5973 | 0.5973 | 0.6562 | 0.0048 | -0.0295 | 0.0000 | 0.02600 | 33.461 | 026.-70 | 073 | | | |
| 01.93 | 0.0567 | 00.536 | 0.0346 | 0.5973 | 0.5973 | 0.6541 | 0.0113 | -0.0435 | -0.0004 | 0.02583 | 29.495 | 026.-77 | 074 | | |
| 02.12 | 0.0537 | 00.622 | 0.0315 | 0.5986 | 0.5986 | 0.6554 | 0.0106 | -0.0298 | 0.0036 | 0.02584 | 35.203 | 026.-73 | 075 | | |
| 02.34 | 0.0646 | 00.674 | 0.0402 | 0.5991 | 0.5989 | 0.6569 | 0.0067 | -0.0456 | 0.0005 | 0.02577 | 0.0577 | 026.-73 | 076 | | |
| 02.52 | 0.0754 | 00.711 | 0.0489 | 0.6027 | 0.5999 | 0.6593 | 0.0131 | -0.0395 | 0.0009 | 0.02586 | 28.660 | 026.-73 | 077 | | |
| 02.68 | 0.0868 | 00.747 | 0.0588 | 0.6006 | 0.5972 | 0.6571 | 0.0059 | -0.0913 | 0.0013 | 0.02599 | 26.152 | 026.-73 | 078 | | |
| 02.87 | 0.0857 | 00.832 | 0.0557 | 0.6007 | 0.5972 | 0.6571 | 0.0088 | -0.0545 | 0.0022 | 0.02599 | 20.945 | 026.-73 | 079 | | |
| 03.08 | 0.0955 | 00.883 | 0.0835 | 0.5974 | 0.5974 | 0.6541 | 0.0079 | -0.0252 | 0.0024 | 0.02610 | 27.989 | 026.-83 | 080 | | |
| 03.27 | 0.1065 | 00.934 | 0.0722 | 0.6039 | 0.5988 | 0.6604 | 0.0076 | -0.0338 | 0.0009 | 0.02616 | 26.440 | 026.-83 | 081 | | |
| 03.45 | 0.1179 | 00.987 | 0.0816 | 0.6055 | 0.5995 | 0.6606 | 0.0006 | -0.0197 | 0.0023 | 0.02611 | 25.432 | 026.-80 | 082 | | |
| 03.62 | 0.1327 | 01.208 | 0.0946 | 0.6077 | 0.6065 | 0.6611 | 0.0077 | -0.0441 | 0.0010 | 0.02611 | 23.591 | 026.-73 | 083 | | |
| 03.83 | 0.1552 | 01.068 | 0.1147 | 0.6089 | 0.6059 | 0.6627 | 0.0023 | -0.032 | 0.0012 | 0.02612 | 20.933 | 026.-73 | 084 | | |
| 04.01 | 0.1630 | 01.127 | 0.1206 | 0.6109 | 0.6010 | 0.6656 | 0.0087 | -0.0428 | 0.0017 | 0.02667 | 17.715 | 026.-66 | 085 | | |
| 04.20 | 0.1676 | 01.167 | 0.1233 | 0.6103 | 0.5997 | 0.6671 | 0.0020 | -0.0672 | 0.0016 | 0.02674 | 21.150 | 026.-54 | 086 | | |
| 04.38 | 0.1812 | 01.196 | 0.1351 | 0.6083 | 0.5962 | 0.6636 | -0.0062 | -0.0331 | 0.0014 | 0.02677 | 20.058 | 026.-64 | 087 | | |
| 04.58 | 0.1914 | 01.264 | 0.1432 | 0.6090 | 0.5956 | 0.6628 | -0.0069 | -0.0463 | 0.0010 | 0.02673 | 0.02673 | 026.-67 | 088 | | |
| 04.77 | 0.2054 | 01.297 | 0.1551 | 0.6120 | 0.5970 | 0.6655 | -0.0072 | -0.0590 | 0.0023 | 0.02612 | 19.183 | 026.-73 | 089 | | |
| 04.93 | 0.2171 | 01.336 | 0.1646 | 0.6169 | 0.6005 | 0.6702 | -0.0109 | -0.0560 | 0.0021 | 0.02628 | 20.933 | 026.-73 | 090 | | |
| 05.16 | 0.2352 | 01.371 | 01.1801 | 0.6226 | 0.6019 | 0.6714 | -0.0080 | -0.0558 | 0.0014 | 0.02695 | 17.715 | 026.-73 | 091 | | |
| 05.35 | 0.2493 | 01.407 | 01.1920 | 0.6238 | 0.6032 | 0.6751 | -0.0021 | -0.0333 | 0.0013 | 0.02719 | 17.144 | 026.-77 | 092 | | |
| 05.51 | 0.2565 | 01.461 | 01.1974 | 0.6243 | 0.6025 | 0.6734 | -0.0024 | -0.0264 | 0.0014 | 0.02710 | 17.302 | 026.-73 | 093 | | |
| 05.74 | 0.2835 | 01.503 | 0.2218 | 0.6284 | 0.6031 | 0.6757 | -0.0064 | -0.0495 | 0.0012 | 0.02726 | 16.107 | 026.-70 | 094 | | |
| 05.93 | 0.2899 | 01.534 | 0.2263 | 0.6274 | 0.6007 | 0.6755 | -0.0067 | -0.074 | 0.0025 | 0.02749 | 16.074 | 026.-77 | 095 | | |
| 06.12 | 0.3054 | 01.557 | 0.2399 | 0.6273 | 0.5982 | 0.6747 | -0.0108 | -0.074 | 0.0015 | 0.02765 | 15.485 | 026.-73 | 096 | | |
| 06.29 | 0.3189 | 01.588 | 0.2511 | 0.6332 | 0.6219 | 0.6795 | -0.0075 | -0.0584 | 0.0025 | 0.02776 | 15.123 | 026.-80 | 097 | | |
| 06.51 | 0.3362 | 01.637 | 0.2661 | 0.6342 | 0.6000 | 0.6813 | -0.0149 | -0.0600 | 0.0003 | 0.02813 | 14.790 | 026.-84 | 098 | | |
| 06.70 | 0.3468 | 01.672 | 0.2744 | 0.6367 | 0.6004 | 0.6851 | -0.0153 | -0.0663 | 0.0011 | 0.02867 | 14.649 | 026.-90 | 099 | | |
| 06.90 | 0.3695 | 01.731 | 0.2941 | 0.6457 | 0.6057 | 0.6892 | -0.0196 | -0.0407 | 0.0022 | 0.02836 | 14.230 | 026.-86 | 100 | | |
| 07.11 | 0.3861 | 01.775 | 0.3291 | 0.6494 | 0.6072 | 0.6863 | -0.0172 | -0.074 | 0.0030 | 0.02819 | 13.976 | 026.-80 | 101 | | |
| 07.28 | 0.4091 | 01.847 | 0.3435 | 0.6543 | 0.6049 | 0.6874 | -0.0163 | -0.072 | 0.0023 | 0.02825 | 13.366 | 026.-77 | 102 | | |
| 07.50 | 0.4260 | 01.847 | 0.3435 | 0.6543 | 0.6039 | 0.6888 | -0.0082 | -0.0390 | 0.0024 | 0.02886 | 13.174 | 026.-67 | 103 | | |
| 07.59 | 0.4322 | 01.913 | 0.4478 | 0.6532 | 0.6011 | 0.6858 | -0.0156 | -0.0553 | 0.0021 | 0.02867 | 14.446 | 026.-70 | 104 | | |
| 07.86 | 0.4550 | 01.731 | 0.3696 | 0.6574 | 0.6027 | 0.6876 | -0.0195 | -0.0568 | 0.0029 | 0.02869 | 13.158 | 026.-64 | 105 | | |
| 08.36 | 0.4733 | 02.328 | 0.6607 | 0.6607 | 0.6880 | -0.0162 | -0.0493 | 0.0027 | 0.02873 | 13.103 | 026.-66 | 106 | | | |

HSWT TEST 89

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89

RUN 010 MAC-1 NC 1.017 A/VL 07236308 Q 1444 PSF TO 600

10/17/62

COEFFICIENTS

| ALPHA | N | P _M | L | D | A | A _U | Y | Y _M | R _M | A _R | C _P | P _D | P _T |
|-------|--------|----------------|--------|--------|--------|----------------|---------|----------------|----------------|----------------|----------------|----------------|----------------|
| 38.28 | 0.4874 | 32.376 | 0.3959 | 0.6637 | 0.5998 | 0.6878 | -0.0232 | -0.0659 | 0.0032 | 0.0032 | 0.2880 | 12.942 | 026.70 |
| 38.47 | 0.5182 | 02.078 | 0.4220 | 0.6758 | 0.6012 | 0.6880 | -0.0271 | -0.0443 | 0.0025 | 0.0025 | 0.2868 | 12.222 | 026.73 |
| 38.67 | 0.5355 | 02.155 | 0.4385 | 0.6770 | 0.6031 | 0.6912 | -0.0242 | -0.0152 | 0.0028 | 0.0028 | 0.2880 | 12.227 | 026.70 |
| 38.87 | 0.5355 | 32.263 | 0.4367 | 0.6747 | 0.5994 | 0.6880 | -0.0453 | -0.0346 | 0.0035 | 0.0035 | 0.2886 | 12.822 | 026.67 |
| 39.06 | 0.5719 | 32.281 | 0.4702 | 0.6834 | 0.6008 | 0.6907 | -0.0528 | -0.0009 | 0.0019 | 0.0019 | 0.2899 | 12.116 | 026.70 |
| 39.24 | 0.6097 | 02.323 | 0.5056 | 0.6896 | 0.5995 | 0.6939 | -0.0181 | -0.0319 | 0.0039 | 0.0039 | 0.3914 | 11.573 | 026.70 |
| 39.46 | 0.6238 | 32.411 | 0.5167 | 0.6946 | 0.6102 | 0.6931 | -0.0219 | -0.0249 | 0.0038 | 0.0038 | 0.2929 | 11.741 | 026.70 |
| 39.53 | 0.6455 | 32.433 | 0.5358 | 0.7012 | 0.6017 | 0.6655 | -0.0328 | -0.0650 | 0.0035 | 0.0035 | 0.3938 | 11.436 | 026.73 |
| 39.79 | 0.6619 | 32.466 | 0.5558 | 0.7066 | 0.6018 | 0.6599 | -0.0325 | -0.0420 | 0.0022 | 0.0022 | 0.3961 | 11.220 | 026.73 |
| 39.94 | 0.6819 | 02.526 | 0.5735 | 0.7133 | 0.6036 | 0.6965 | -0.0607 | -0.0054 | 0.0046 | 0.0046 | 0.3929 | 11.157 | 026.70 |
| 10.10 | 0.7033 | 32.582 | 0.5870 | 0.7148 | 0.6008 | 0.6677 | -0.0502 | -0.0157 | 0.0022 | 0.0022 | 0.3969 | 11.153 | 026.70 |
| 10.24 | 0.7551 | 32.583 | 0.6164 | 0.7226 | 0.6014 | 0.6707 | -0.0474 | -0.0311 | 0.0033 | 0.0033 | 0.3996 | 10.675 | 026.73 |
| 10.33 | 0.7414 | 32.636 | 0.6220 | 0.7219 | 0.5987 | 0.6588 | -0.0587 | -0.0400 | 0.0045 | 0.0045 | 0.3971 | 10.801 | 026.73 |
| 10.47 | 0.7519 | 02.657 | 0.6375 | 0.7212 | 0.5936 | 0.6330 | -0.0443 | -0.0066 | 0.0055 | 0.0055 | 0.3996 | 10.651 | 026.73 |
| 10.55 | 0.7819 | 32.668 | 0.6583 | 0.7352 | 0.6022 | 0.7021 | -0.0271 | -0.0361 | 0.0042 | 0.0042 | 0.3998 | 10.366 | 026.70 |
| 10.66 | 0.7833 | 32.722 | 0.6581 | 0.7325 | 0.5981 | 0.6970 | -0.0486 | -0.0175 | 0.0035 | 0.0035 | 0.3990 | 10.572 | 026.67 |
| 10.72 | 0.8041 | 32.735 | 0.6788 | 0.7374 | 0.5983 | 0.6980 | -0.0524 | -0.0255 | 0.0038 | 0.0038 | 0.3998 | 10.334 | 026.61 |
| 10.75 | 0.7933 | 02.754 | 0.6667 | 0.7417 | 0.6044 | 0.7037 | -0.0513 | -0.0337 | 0.0050 | 0.0050 | 0.3994 | 10.555 | 026.67 |
| 10.92 | 0.8094 | 02.789 | 0.6689 | 0.7431 | 0.6007 | 0.7013 | -0.0380 | -0.0100 | 0.0036 | 0.0036 | 0.4006 | 10.469 | 026.70 |
| 11.31 | 0.8228 | 32.822 | 0.6960 | 0.7469 | 0.6003 | 0.7022 | -0.0382 | -0.0185 | 0.0036 | 0.0036 | 0.4019 | 10.381 | 026.73 |
| 11.15 | 0.8388 | 32.866 | 0.7068 | 0.7516 | 0.6007 | 0.7069 | -0.0277 | -0.0118 | 0.0046 | 0.0046 | 0.4061 | 10.378 | 026.70 |
| 11.30 | 0.8598 | 02.896 | 0.7252 | 0.7587 | 0.6020 | 0.7068 | -0.0302 | -0.0182 | 0.0062 | 0.0062 | 0.4068 | 10.232 | 026.73 |
| 11.41 | 0.8788 | 02.903 | 0.7430 | 0.7609 | 0.5989 | 0.7034 | -0.0486 | -0.0142 | 0.0029 | 0.0029 | 0.4065 | 10.034 | 026.73 |
| 11.44 | 0.8887 | 02.934 | 0.7657 | 0.6614 | 0.6014 | 0.7037 | -0.0513 | -0.0337 | 0.0050 | 0.0050 | 0.4049 | 10.1023 | 026.73 |
| 11.50 | 0.8897 | 33.010 | 0.7519 | 0.7670 | 0.6016 | 0.7052 | -0.0447 | -0.0236 | 0.0054 | 0.0054 | 0.4036 | 10.278 | 026.70 |
| 11.54 | 0.8969 | 03.029 | 0.7587 | 0.7676 | 0.6004 | 0.7054 | -0.0363 | -0.0221 | 0.0051 | 0.0051 | 0.4051 | 10.259 | 026.70 |
| 11.54 | 0.9202 | 01.017 | 0.7813 | 0.7733 | 0.6014 | 0.7079 | -0.0343 | -0.0368 | 0.0051 | 0.0051 | 0.4065 | 01.059 | 026.73 |
| 11.56 | 0.9224 | 33.014 | 0.7830 | 0.7757 | 0.6034 | 0.7093 | -0.0240 | -0.0131 | 0.0043 | 0.0043 | 0.4059 | 09.926 | 026.73 |
| 11.52 | 0.9264 | 33.014 | 0.7873 | 0.7763 | 0.6035 | 0.7094 | -0.0239 | -0.0218 | 0.0043 | 0.0043 | 0.4059 | 09.985 | 026.73 |
| 11.52 | 0.9338 | 03.016 | 0.7940 | 0.7800 | 0.6057 | 0.7116 | -0.0275 | -0.0066 | 0.0045 | 0.0045 | 0.4059 | 09.813 | 026.73 |
| 00.20 | 0.3607 | 00.047 | 0.0587 | 0.6095 | 0.6002 | 0.6567 | -0.0143 | -0.0093 | 0.0007 | 0.0007 | 0.3565 | 02.331 | 026.67 |
| 00.19 | 0.3413 | 00.025 | 0.0393 | 0.6007 | 0.6006 | 0.6561 | 0.0175 | -0.0367 | -0.0037 | -0.0037 | 0.3556 | 01.861 | 026.64 |

| CNC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | | | HSWT TEST 89 | | | | | | | | | | | |
|---|---------|-----------|---------|--------|--------|--------|---------|--------|---------|--------|---------|--------------|---------|-----|--|--|--|--|--|--|--|--|--|
| RUN 011 MACH NO 0.803 RM/L 07497218 Q 1292 PSF TO 602 | | | | | | | | | | | | 10/17/62 | | | | | | | | | | | |
| COEFFICIENTS | | | | | | | | | | | | | | | | | | | | | | | |
| ALPHA | R | PW | L | D | A | AU | V | YN | RW | AB | CP | P0 | PNT | | | | | | | | | | |
| 00.34 | 0.0251 | 00.-024 | 0.0234 | 0.2927 | 0.2925 | 0.3008 | 0.0147 | 0.0027 | 0.0000 | 0.0083 | 02.-896 | 030.-28 | 005 | | | | | | | | | | |
| 00.34 | 0.0247 | 00.-043 | 0.0320 | 0.2900 | 0.2898 | 0.2984 | -0.0007 | 0.0077 | -0.0014 | 0.0066 | 05.-277 | 030.-31 | 006 | | | | | | | | | | |
| -11.05 | -0.7806 | -03.-098 | -0.7162 | 0.4159 | 0.2713 | 0.3063 | 0.0783 | 0.1752 | -0.0007 | 0.0350 | 12.-057 | 030.-34 | 008 | | | | | | | | | | |
| -10.86 | -0.7751 | -03.-093 | -0.7102 | 0.4122 | 0.2709 | 0.3053 | 0.0891 | 0.1758 | -0.0019 | 0.0344 | 11.-793 | 030.-41 | 009 | | | | | | | | | | |
| -10.56 | -0.7383 | -03.-088 | -0.6768 | 0.4057 | 0.2717 | 0.3070 | 0.0777 | 0.1502 | -0.0013 | 0.0333 | 12.-707 | 030.-34 | 010 | | | | | | | | | | |
| -10.49 | -0.7410 | -03.-001 | -0.6768 | 0.4034 | 0.2731 | 0.3051 | 0.0774 | 0.1238 | -0.0001 | 0.0221 | 12.-306 | 030.-38 | 011 | | | | | | | | | | |
| -10.31 | -0.7017 | -03.-039 | -0.6776 | 0.3939 | 0.2716 | 0.3047 | 0.0802 | 0.1413 | -0.0006 | 0.0231 | 13.-045 | 030.-44 | 012 | | | | | | | | | | |
| -10.12 | -0.6959 | -02.-945 | -0.6381 | 0.3914 | 0.2731 | 0.3050 | 0.0714 | 0.1382 | -0.0001 | 0.0319 | 12.-836 | 030.-54 | 013 | | | | | | | | | | |
| -09.94 | -0.6698 | -02.-926 | -0.6121 | 0.3877 | 0.2763 | 0.3057 | 0.0706 | 0.1464 | -0.0004 | 0.0293 | 13.-270 | 030.-34 | 014 | | | | | | | | | | |
| -09.74 | -0.6600 | -02.-870 | -0.6038 | 0.3831 | 0.2734 | 0.3050 | 0.0705 | 0.1385 | -0.0001 | 0.0296 | 13.-209 | 030.-44 | 015 | | | | | | | | | | |
| -09.54 | -0.6602 | -02.-783 | -0.6059 | 0.3777 | 0.2719 | 0.3026 | 0.0777 | 0.1561 | -0.0005 | 0.0207 | 12.-806 | 030.-38 | 016 | | | | | | | | | | |
| -09.36 | -0.6117 | -02.-741 | -0.5986 | 0.3723 | 0.2753 | 0.3056 | 0.0622 | 0.1112 | -0.0012 | 0.0285 | 13.-614 | 030.-31 | 017 | | | | | | | | | | |
| -09.17 | -0.6161 | -02.-599 | -0.5644 | 0.3699 | 0.2765 | 0.3059 | 0.0773 | 0.1077 | -0.0003 | 0.0256 | 12.-816 | 030.-34 | 018 | | | | | | | | | | |
| -08.98 | -0.5770 | -02.-578 | -0.5271 | 0.3624 | 0.2760 | 0.3033 | 0.0751 | 0.1541 | -0.0016 | 0.0273 | 13.-571 | 030.-31 | 019 | | | | | | | | | | |
| -08.79 | -0.5924 | -02.-587 | -0.5034 | 0.3595 | 0.2784 | 0.3046 | 0.0752 | 0.1039 | -0.0007 | 0.0262 | 14.-062 | 030.-38 | 020 | | | | | | | | | | |
| -08.59 | -0.5922 | -02.-517 | -0.4974 | 0.3566 | 0.2782 | 0.3020 | 0.0749 | 0.1287 | -0.0001 | 0.0239 | 14.-028 | 030.-25 | 021 | | | | | | | | | | |
| -08.39 | -0.5283 | -02.-513 | -0.4821 | 0.3518 | 0.2777 | 0.3032 | 0.0778 | 0.1295 | -0.0001 | 0.0255 | 14.-453 | 030.-35 | 022 | | | | | | | | | | |
| -08.21 | -0.5202 | -02.-486 | -0.4749 | 0.3514 | 0.2800 | 0.3045 | 0.0622 | 0.1322 | -0.0014 | 0.0245 | 14.-535 | 030.-35 | 023 | | | | | | | | | | |
| -08.03 | -0.4905 | -02.-486 | -0.4458 | 0.3443 | 0.2785 | 0.3018 | 0.0773 | 0.0960 | -0.0000 | 0.0232 | 15.-398 | 030.-21 | 024 | | | | | | | | | | |
| -07.85 | -0.4783 | -02.-441 | -0.4356 | 0.3427 | 0.2800 | 0.3027 | 0.0763 | 0.1248 | -0.0001 | 0.0227 | 15.-507 | 030.-25 | 025 | | | | | | | | | | |
| -07.66 | -0.4338 | -02.-422 | -0.4222 | 0.3400 | 0.2804 | 0.3027 | 0.0750 | 0.1366 | -0.0006 | 0.0221 | 15.-905 | 030.-31 | 026 | | | | | | | | | | |
| -07.49 | -0.4476 | -02.-3646 | -0.4075 | 0.3339 | 0.2779 | 0.3011 | 0.0781 | 0.1201 | -0.0022 | 0.0221 | 16.-044 | 030.-34 | 027 | | | | | | | | | | |
| -07.31 | -0.4369 | -02.-285 | -0.3974 | 0.3354 | 0.2821 | 0.3020 | 0.0699 | 0.1509 | -0.0016 | 0.0199 | 15.-890 | 030.-34 | 028 | | | | | | | | | | |
| -07.10 | -0.4175 | -02.-228 | -0.3795 | 0.3301 | 0.2807 | 0.3007 | 0.0656 | 0.1075 | -0.0005 | 0.0193 | 16.-214 | 030.-44 | 029 | | | | | | | | | | |
| -06.92 | -0.4216 | -02.-086 | -0.3865 | 0.3302 | 0.2815 | 0.2987 | 0.0775 | 0.0337 | -0.0008 | 0.0172 | 15.-311 | 030.-41 | 030 | | | | | | | | | | |
| -06.76 | -0.3699 | -02.-067 | -0.3542 | 0.2446 | 0.2804 | 0.2991 | 0.0770 | 0.1172 | -0.0011 | 0.0184 | 16.-105 | 030.-38 | 031 | | | | | | | | | | |
| -06.58 | -0.3675 | -01.-995 | -0.3524 | 0.2867 | 0.3272 | 0.2846 | 0.3015 | 0.0697 | 0.0002 | 0.0009 | 0.0168 | 15.-642 | 030.-34 | 032 | | | | | | | | | |
| -06.35 | -0.3671 | -01.-993 | -0.3339 | 0.3199 | 0.2910 | 0.3000 | 0.0680 | 0.1095 | -0.0003 | 0.0190 | 16.-497 | 030.-31 | 033 | | | | | | | | | | |
| -06.22 | -0.3595 | -01.-935 | -0.3269 | 0.3181 | 0.2808 | 0.2991 | 0.0691 | 0.1067 | -0.0000 | 0.0184 | 16.-351 | 030.-28 | 034 | | | | | | | | | | |
| -06.01 | -0.3695 | -01.-927 | -0.3156 | 0.3156 | 0.2805 | 0.2988 | 0.0692 | 0.0817 | -0.0016 | 0.0183 | 16.-735 | 030.-31 | 035 | | | | | | | | | | |
| -05.82 | -0.3315 | -01.-918 | -0.3013 | 0.3139 | 0.2817 | 0.2970 | 0.0885 | 0.0538 | -0.0009 | 0.0113 | 16.-573 | 030.-36 | 036 | | | | | | | | | | |
| -05.63 | -0.3314 | -01.-855 | -0.3020 | 0.3139 | 0.2828 | 0.3000 | 0.0729 | 0.1172 | -0.0017 | 0.0123 | 17.-023 | 030.-31 | 037 | | | | | | | | | | |
| -05.46 | -0.3152 | -01.-852 | -0.2867 | 0.3138 | 0.2851 | 0.2991 | 0.0755 | 0.1072 | -0.0005 | 0.0139 | 17.-845 | 030.-41 | 038 | | | | | | | | | | |
| -05.24 | -0.3118 | -01.-745 | -0.2903 | 0.3128 | 0.2850 | 0.2947 | 0.0610 | 0.1076 | -0.0003 | 0.0146 | 16.-874 | 030.-31 | 039 | | | | | | | | | | |
| -05.04 | -0.2996 | -01.-366 | -0.2636 | 0.3079 | 0.2836 | 0.2993 | 0.0527 | 0.1025 | -0.0019 | 0.0157 | 16.-301 | 030.-31 | 040 | | | | | | | | | | |
| -04.85 | -0.2979 | -01.-624 | -0.2750 | 0.3068 | 0.2826 | 0.2966 | 0.0490 | 0.0649 | -0.0002 | 0.0140 | 16.-555 | 030.-38 | 041 | | | | | | | | | | |
| -04.65 | -0.2773 | -01.-581 | -0.2553 | 0.3052 | 0.2867 | 0.2960 | 0.0489 | 0.0583 | -0.0007 | 0.0123 | 17.-320 | 030.-38 | 042 | | | | | | | | | | |
| -04.45 | -0.2644 | -01.-513 | -0.2416 | 0.3032 | 0.2835 | 0.2957 | 0.0481 | 0.0522 | -0.0011 | 0.0123 | 17.-386 | 030.-44 | 043 | | | | | | | | | | |
| -04.26 | -0.2619 | -01.-442 | -0.2402 | 0.3017 | 0.2830 | 0.2945 | 0.0527 | 0.0556 | -0.0002 | 0.0134 | 16.-728 | 030.-41 | 044 | | | | | | | | | | |
| -04.07 | -0.2535 | -01.-404 | -0.2337 | 0.3026 | 0.2853 | 0.2947 | 0.0565 | 0.0334 | -0.0016 | 0.0107 | 16.-762 | 030.-38 | 045 | | | | | | | | | | |
| -03.88 | -0.2393 | -01.-366 | -0.2197 | 0.2984 | 0.2828 | 0.2932 | 0.0476 | 0.0692 | -0.0000 | 0.0124 | 17.-341 | 030.-34 | 046 | | | | | | | | | | |
| -03.69 | -0.2311 | -01.-294 | -0.2164 | 0.2982 | 0.2836 | 0.2945 | 0.0365 | 0.0813 | -0.0002 | 0.0129 | 16.-581 | 030.-28 | 047 | | | | | | | | | | |
| -03.50 | -0.2190 | -01.-265 | -0.2011 | 0.2994 | 0.2871 | 0.2947 | 0.0323 | 0.0913 | -0.0005 | 0.0119 | 17.-544 | 030.-31 | 048 | | | | | | | | | | |
| -03.31 | -0.2118 | -01.-187 | -0.1951 | 0.2959 | 0.2842 | 0.2947 | 0.0556 | 0.0482 | -0.0002 | 0.0106 | 17.-031 | 030.-31 | 049 | | | | | | | | | | |
| -03.12 | -0.2049 | -01.-130 | -0.1890 | 0.2950 | 0.2843 | 0.2943 | 0.0473 | 0.0796 | -0.0009 | 0.0101 | 16.-757 | 030.-31 | 050 | | | | | | | | | | |
| -02.92 | -0.1864 | -01.-500 | -0.1736 | 0.2937 | 0.2844 | 0.2945 | 0.0479 | 0.0829 | -0.0001 | 0.0101 | 16.-926 | 030.-31 | 051 | | | | | | | | | | |
| -02.73 | -0.1815 | -00.-972 | -0.1679 | 0.2902 | 0.2819 | 0.2919 | 0.0471 | 0.0814 | -0.0002 | 0.0101 | 16.-244 | 030.-31 | 052 | | | | | | | | | | |
| -02.54 | -0.1734 | -00.-911 | -0.1608 | 0.2897 | 0.2823 | 0.2918 | 0.0433 | 0.0816 | -0.0009 | 0.0095 | 15.-960 | 030.-31 | 053 | | | | | | | | | | |
| -02.33 | -0.1641 | -00.-831 | -0.1563 | 0.2889 | 0.2824 | 0.2919 | 0.0351 | 0.0742 | -0.0005 | 0.0095 | 15.-209 | 030.-38 | 054 | | | | | | | | | | |
| -02.16 | -0.1533 | -00.-787 | -0.1425 | 0.2902 | 0.2860 | 0.2900 | 0.0276 | 0.0801 | -0.0005 | 0.0095 | 15.-606 | 030.-44 | 055 | | | | | | | | | | |
| -02.00 | -0.1438 | -00.-751 | -0.1358 | 0.2880 | 0.2831 | 0.2916 | 0.0352 | 0.0855 | -0.0005 | 0.0095 | 15.-655 | 030.-41 | 056 | | | | | | | | | | |

| CYC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSWT TEST 89 | | | | | | | | | |
|---|---------|----------------|----------------|--------|----------|--------|----------------|--------|----------------|----------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
| RUN 011 MACH NO 0.803 RN/L 07497218 Q 1292 PSF V0 602 | | | | | 10/17/62 | | | | | HSWT TEST 89 | | | | | | | | | |
| COEFFICIENTS | | | | | | | | | | | | | | | | | | | |
| ALPHA | N | P _M | P _N | L | D | A | A _U | V | V _N | R _M | AB | C _P | P _O | P _M | P _N | P _M | P _N | P _M | |
| -01.82 | -0.1374 | -0.710 | -0.1283 | 0.2895 | 0.2853 | 0.2933 | 0.0239 | 0.0290 | 0.0002 | 0.0080 | 15.705 | 030-44 | 057 | | | | | | |
| -01.61 | -0.1299 | -0.672 | -0.1218 | 0.2903 | 0.2668 | 0.2926 | 0.0391 | 0.0315 | 0.0013 | 0.0059 | 15.717 | 030-44 | 058 | | | | | | |
| -01.42 | -0.1310 | -0.596 | -0.1238 | 0.2899 | 0.2668 | 0.2926 | 0.0353 | 0.0353 | 0.0005 | 0.0059 | 13.824 | 030-44 | 059 | | | | | | |
| -01.24 | -0.1238 | -0.500 | -0.1176 | 0.2895 | 0.2669 | 0.2905 | 0.0355 | 0.0211 | 0.0006 | 0.0036 | 13.241 | 030-38 | 060 | | | | | | |
| -01.05 | -0.1225 | -0.447 | -0.1172 | 0.2861 | 0.2839 | 0.2931 | 0.0386 | 0.0711 | 0.0010 | 0.0082 | 11.085 | 030-34 | 061 | | | | | | |
| -00.86 | -0.1104 | -0.388 | -0.1062 | 0.2855 | 0.2938 | 0.2924 | 0.0276 | 0.0333 | 0.0003 | 0.0066 | 10.633 | 030-28 | 062 | | | | | | |
| -00.67 | -0.0985 | -0.307 | -0.0952 | 0.2819 | 0.2908 | 0.2899 | 0.0191 | 0.0138 | 0.0003 | 0.0091 | 0.0465 | 030-34 | 063 | | | | | | |
| -00.46 | -0.0906 | -0.248 | -0.0884 | 0.2790 | 0.2783 | 0.2878 | 0.0273 | 0.0144 | 0.0012 | 0.0095 | 0.315 | 030-34 | 064 | | | | | | |
| -00.30 | -0.0830 | -0.170 | -0.0815 | 0.2815 | 0.2810 | 0.2901 | 0.0161 | 0.0133 | 0.0005 | 0.0091 | 0.238 | 030-34 | 065 | | | | | | |
| -00.11 | -0.0839 | -0.095 | -0.0833 | 0.2821 | 0.2811 | 0.2904 | 0.0350 | 0.0162 | 0.0002 | 0.0005 | 0.426 | 030-44 | 066 | | | | | | |
| 00.07 | -0.0769 | -0.037 | -0.0772 | 0.2813 | 0.2814 | 0.2911 | 0.0352 | 0.0157 | 0.0001 | 0.0097 | 0.448 | 030-38 | 067 | | | | | | |
| 00.23 | -0.0597 | -0.014 | -0.0609 | 0.2862 | 0.2885 | 0.2954 | 0.0277 | 0.0112 | 0.0008 | 0.0069 | 0.699 | 030-38 | 068 | | | | | | |
| 00.44 | -0.0383 | 0.010 | -0.0405 | 0.2827 | 0.2810 | 0.2927 | 0.0125 | 0.0174 | 0.0002 | 0.0097 | 0.766 | 030-38 | 069 | | | | | | |
| 00.63 | -0.0479 | 0.012 | -0.0510 | 0.2836 | 0.2841 | 0.2927 | 0.0127 | 0.0170 | 0.0015 | 0.0066 | 0.483 | 030-34 | 070 | | | | | | |
| 00.92 | -0.0450 | 0.016 | -0.0490 | 0.2839 | 0.2846 | 0.2936 | 0.0073 | 0.0133 | 0.0009 | 0.0091 | 0.802 | 030-34 | 071 | | | | | | |
| 01.01 | -0.0416 | 0.021 | -0.0469 | 0.2869 | 0.2869 | 0.2927 | 0.0169 | 0.0086 | 0.0010 | 0.0051 | 1.850 | 030-34 | 072 | | | | | | |
| 01.23 | -0.0258 | 0.033 | -0.0320 | 0.2858 | 0.2864 | 0.2938 | 0.0178 | 0.0162 | 0.0019 | 0.0074 | 3.183 | 030-38 | 073 | | | | | | |
| 01.42 | -0.0185 | 0.049 | -0.0256 | 0.2860 | 0.2855 | 0.2940 | 0.0092 | 0.0301 | 0.0016 | 0.0016 | 7.414 | 030-41 | 074 | | | | | | |
| 01.59 | -0.0154 | 0.056 | -0.0233 | 0.2860 | 0.2865 | 0.2934 | 0.0124 | 0.0467 | 0.0010 | 0.0069 | 9.723 | 030-38 | 075 | | | | | | |
| 01.78 | 0.0119 | 0.0527 | -0.0071 | 0.2887 | 0.2888 | 0.2951 | 0.0127 | 0.0036 | 0.0019 | 0.0064 | 4.418 | 030-41 | 076 | | | | | | |
| 01.96 | 0.0101 | 0.058 | 0.0002 | 0.2897 | 0.2896 | 0.2965 | 0.0067 | 0.0031 | 0.0009 | 0.0069 | 6.420 | 030-38 | 077 | | | | | | |
| 02.15 | 0.0184 | 0.068 | 0.0076 | 0.2882 | 0.2876 | 0.2951 | 0.0164 | 0.0453 | 0.0017 | 0.0074 | 1.332 | 030-34 | 078 | | | | | | |
| 02.34 | 0.0219 | 0.0681 | 0.0101 | 0.2886 | 0.2879 | 0.2958 | 0.0083 | 0.0554 | 0.0009 | 0.0179 | 9.680 | 030-38 | 079 | | | | | | |
| 02.55 | 0.0339 | 0.0741 | 0.0110 | 0.2889 | 0.2877 | 0.2967 | 0.0080 | 0.0344 | 0.0015 | 0.0057 | 6.524 | 030-38 | 080 | | | | | | |
| 02.74 | 0.0369 | 0.0832 | 0.0229 | 0.2927 | 0.2912 | 0.2970 | 0.0162 | 0.0366 | 0.0011 | 0.0057 | 6.504 | 030-44 | 081 | | | | | | |
| 02.90 | 0.0469 | 0.0909 | 0.0341 | 0.2929 | 0.2908 | 0.2955 | 0.0028 | 0.0152 | 0.0020 | 0.0067 | 5.462 | 030-47 | 082 | | | | | | |
| 03.12 | 0.0600 | 0.0988 | 0.0439 | 0.2983 | 0.2983 | 0.2991 | 0.0016 | 0.0106 | 0.0011 | 0.0036 | 20.024 | 030-44 | 083 | | | | | | |
| 03.25 | 0.0675 | 0.0752 | 0.0505 | 0.2979 | 0.2965 | 0.3004 | 0.0003 | 0.0068 | 0.0002 | 0.0059 | 4.340 | 030-41 | 084 | | | | | | |
| 03.49 | 0.0890 | 0.1075 | 0.0707 | 0.3025 | 0.2916 | 0.3028 | 0.0062 | 0.0462 | 0.0055 | 0.0114 | 0.052 | 030-38 | 085 | | | | | | |
| 03.65 | 0.0879 | 0.1165 | 0.0690 | 0.2988 | 0.2988 | 0.3012 | 0.0003 | 0.0294 | 0.0023 | 0.0076 | 40.245 | 030-41 | 086 | | | | | | |
| 03.84 | 0.1008 | 0.1223 | 0.0807 | 0.3024 | 0.2963 | 0.3032 | 0.0035 | 0.0883 | 0.0027 | 0.0069 | 3.918 | 030-41 | 087 | | | | | | |
| 04.05 | 0.1132 | 0.1249 | 0.0922 | 0.3021 | 0.2948 | 0.3033 | 0.0041 | 0.0442 | 0.0032 | 0.0095 | 31.916 | 030-38 | 088 | | | | | | |
| 04.23 | 0.1205 | 0.1301 | 0.0983 | 0.3041 | 0.2960 | 0.3006 | 0.0279 | 0.0439 | 0.0023 | 0.0064 | 32.817 | 030-41 | 089 | | | | | | |
| 04.44 | 0.1461 | 0.1317 | 0.1227 | 0.3073 | 0.2957 | 0.3055 | 0.0254 | 0.0244 | 0.0015 | 0.0066 | 2.382 | 030-34 | 090 | | | | | | |
| 04.61 | 0.1424 | 0.1396 | 0.1182 | 0.3062 | 0.2957 | 0.3059 | 0.0254 | 0.0244 | 0.0015 | 0.0066 | 2.787 | 030-31 | 091 | | | | | | |
| 04.80 | 0.1502 | 0.1454 | 0.1248 | 0.3093 | 0.2978 | 0.3057 | 0.018 | 0.0360 | 0.0038 | 0.0079 | 29.402 | 030-28 | 092 | | | | | | |
| 04.99 | 0.1662 | 0.1454 | 0.1399 | 0.3089 | 0.2956 | 0.3051 | 0.0145 | 0.0187 | 0.0030 | 0.0066 | 0.027 | 030-31 | 093 | | | | | | |
| 05.16 | 0.1687 | 0.1523 | 0.1412 | 0.3126 | 0.2987 | 0.3059 | 0.0110 | 0.0188 | 0.0023 | 0.0072 | 27.422 | 030-34 | 094 | | | | | | |
| 05.36 | 0.1603 | 0.1600 | 0.1517 | 0.3125 | 0.2969 | 0.3064 | 0.0118 | 0.0033 | 0.0024 | 0.0093 | 26.965 | 030-38 | 095 | | | | | | |
| 05.57 | 0.2012 | 0.1663 | 0.1714 | 0.3151 | 0.2970 | 0.3077 | 0.0163 | 0.0132 | 0.0038 | 0.0107 | 25.108 | 030-31 | 102 | | | | | | |
| 05.77 | 0.2047 | 0.1733 | 0.1738 | 0.3157 | 0.2966 | 0.3079 | 0.0160 | 0.0160 | 0.0029 | 0.0113 | 25.725 | 030-44 | 097 | | | | | | |
| 05.96 | 0.2297 | 0.1781 | 0.1975 | 0.3199 | 0.2977 | 0.3090 | 0.0368 | 0.0097 | 0.0032 | 0.0113 | 23.567 | 030-41 | 098 | | | | | | |
| 06.13 | 0.2464 | 0.1806 | 0.2129 | 0.3255 | 0.3009 | 0.3122 | 0.0177 | 0.0113 | 0.0029 | 0.0113 | 22.234 | 030-41 | 099 | | | | | | |
| 06.32 | 0.2416 | 0.1880 | 0.2070 | 0.3265 | 0.3017 | 0.3162 | 0.0336 | 0.0266 | 0.0026 | 0.0125 | 23.636 | 030-41 | 100 | | | | | | |
| 06.54 | 0.2542 | 0.1925 | 0.2184 | 0.3272 | 0.3002 | 0.3144 | 0.0187 | 0.0080 | 0.0026 | 0.0142 | 23.011 | 030-38 | 101 | | | | | | |
| 06.73 | 0.2218 | 0.2013 | 0.2350 | 0.3275 | 0.2977 | 0.3124 | 0.0193 | 0.0112 | 0.0025 | 0.0167 | 25.504 | 030-31 | 102 | | | | | | |
| 06.93 | 0.2914 | 0.2045 | 0.2532 | 0.3327 | 0.2987 | 0.3137 | 0.0315 | 0.0244 | 0.0026 | 0.0140 | 21.319 | 030-33 | 103 | | | | | | |
| 07.12 | 0.2988 | 0.2079 | 0.2596 | 0.3325 | 0.2978 | 0.3134 | 0.0277 | 0.0244 | 0.0029 | 0.0156 | 21.135 | 030-38 | 104 | | | | | | |
| 07.31 | 0.3153 | 0.2142 | 0.2474 | 0.3309 | 0.3009 | 0.3124 | 0.0234 | 0.0193 | 0.0034 | 0.0159 | 20.640 | 030-34 | 105 | | | | | | |
| 07.53 | 0.3463 | 0.2169 | 0.3022 | 0.3413 | 0.2988 | 0.3164 | 0.0322 | 0.0215 | 0.0037 | 0.0156 | 19.096 | 030-38 | 106 | | | | | | |
| 07.70 | 0.3521 | 0.2222 | 0.3090 | 0.3424 | 0.2980 | 0.3152 | 0.0298 | 0.0298 | 0.0030 | 0.0173 | 19.177 | 030-38 | 107 | | | | | | |

HSMT TEST 89

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89

RUN 011 MACH NO 0.803 RNL 07467218 Q 1292 PSF TU 602

10/17/62

COEFFICIENTS

| ALPHA | N | PW | L | D | A | AU | V | VM | RW | AB | CP | PO | PNT |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|-----|
| 07.89 | 0.3663 | 0.2260 | 0.3238 | 0.3466 | 0.2989 | 0.3173 | -0.0301 | -0.0466 | 0.0036 | 0.0164 | 18.640 | 030.41 | 108 |
| 08.08 | 0.3902 | 0.2305 | 0.3437 | 0.3568 | 0.3029 | 0.3202 | -0.0301 | -0.0466 | 0.0036 | 0.0173 | 17.945 | 030.38 | 109 |
| 08.27 | 0.3972 | 0.2338 | 0.3501 | 0.3590 | 0.2990 | 0.3162 | -0.0495 | -0.0839 | 0.0045 | 0.0172 | 17.882 | 030.41 | 110 |
| 08.46 | 0.4060 | 0.2403 | 0.3574 | 0.3650 | 0.3005 | 0.3177 | -0.0576 | -0.0696 | 0.0041 | 0.0173 | 17.978 | 030.38 | 111 |
| 08.65 | 0.4355 | 0.2409 | 0.3852 | 0.3631 | 0.3010 | 0.3199 | -0.0542 | -0.0528 | 0.0053 | 0.0218 | 16.806 | 030.38 | 112 |
| 08.87 | 0.4533 | 0.2478 | 0.4019 | 0.3668 | 0.2984 | 0.3202 | -0.0508 | -0.0447 | 0.0052 | 0.0218 | 16.409 | 030.34 | 113 |
| 09.01 | 0.4637 | 0.2528 | 0.4110 | 0.3665 | 0.2996 | 0.3203 | -0.0547 | -0.0707 | 0.0046 | 0.0207 | 16.565 | 030.28 | 114 |
| 09.23 | 0.4878 | 0.2607 | 0.4336 | 0.3726 | 0.2982 | 0.3211 | -0.0511 | -0.0626 | 0.0044 | 0.0229 | 16.236 | 030.28 | 115 |
| 09.42 | 0.4989 | 0.2622 | 0.4437 | 0.3729 | 0.2952 | 0.3197 | -0.0531 | -0.0318 | 0.0047 | 0.0244 | 15.968 | 030.31 | 116 |
| 09.56 | 0.5180 | 0.2672 | 0.4613 | 0.3798 | 0.2979 | 0.3211 | -0.0587 | -0.0612 | 0.0061 | 0.0232 | 15.672 | 030.34 | 117 |
| 09.78 | 0.5407 | 0.2685 | 0.4824 | 0.3846 | 0.2970 | 0.3196 | -0.0506 | -0.0501 | 0.0043 | 0.0226 | 15.087 | 030.41 | 118 |
| 09.92 | 0.5612 | 0.2744 | 0.5010 | 0.3926 | 0.3004 | 0.3226 | -0.0630 | -0.0910 | 0.0054 | 0.0223 | 14.853 | 030.34 | 119 |
| 10.06 | 0.5758 | 0.2778 | 0.5149 | 0.3960 | 0.2980 | 0.3219 | -0.0673 | -0.0507 | 0.0047 | 0.0238 | 14.657 | 030.36 | 120 |
| 10.20 | 0.5929 | 0.2804 | 0.3905 | 0.3977 | 0.2994 | 0.3261 | -0.0561 | -0.0325 | 0.0055 | 0.0267 | 14.366 | 030.38 | 121 |
| 10.28 | 0.6089 | 0.2833 | 0.5434 | 0.4039 | 0.3005 | 0.3272 | -0.0468 | -0.0150 | 0.0050 | 0.0267 | 14.184 | 030.34 | 122 |
| 10.39 | 0.6167 | 0.2857 | 0.5520 | 0.4089 | 0.3026 | 0.3282 | -0.0483 | -0.0732 | 0.0056 | 0.0256 | 14.077 | 030.31 | 123 |
| 10.50 | 0.6333 | 0.2858 | 0.5678 | 0.4117 | 0.3014 | 0.3275 | -0.0335 | -0.0709 | 0.0049 | 0.0264 | 13.708 | 030.31 | 124 |
| 10.58 | 0.6317 | 0.2874 | 0.5657 | 0.4116 | 0.3007 | 0.3273 | -0.0644 | -0.0264 | 0.0046 | 0.0266 | 13.821 | 030.31 | 125 |
| 10.64 | 0.6433 | 0.2910 | 0.5771 | 0.4123 | 0.2987 | 0.3264 | -0.0760 | -0.0372 | 0.0055 | 0.0277 | 13.762 | 030.34 | 126 |
| 10.72 | 0.6608 | 0.2938 | 0.5938 | 0.4137 | 0.2980 | 0.3268 | -0.0124 | -0.0369 | 0.0047 | 0.0289 | 13.497 | 030.34 | 127 |
| 10.81 | 0.6680 | 0.2953 | 0.5997 | 0.4208 | 0.3008 | 0.3285 | -0.0452 | -0.0321 | 0.0045 | 0.0277 | 13.430 | 030.34 | 128 |
| 10.95 | 0.6771 | 0.2996 | 0.6080 | 0.4219 | 0.2988 | 0.3276 | -0.0165 | -0.0301 | 0.0061 | 0.0289 | 13.442 | 030.34 | 129 |
| 11.11 | 0.6894 | 0.3017 | 0.6189 | 0.4227 | 0.2985 | 0.3273 | -0.0572 | -0.0268 | 0.0053 | 0.0269 | 13.297 | 030.34 | 130 |
| 11.20 | 0.7099 | 0.2998 | 0.6386 | 0.4277 | 0.2975 | 0.3291 | -0.0651 | -0.0281 | 0.0058 | 0.0316 | 12.831 | 030.38 | 131 |
| 11.31 | 0.7206 | 0.3012 | 0.6482 | 0.4334 | 0.2979 | 0.3278 | -0.0649 | -0.0365 | 0.0053 | 0.0299 | 12.697 | 030.41 | 132 |
| 11.34 | 0.7336 | 0.3072 | 0.6604 | 0.4338 | 0.2980 | 0.3294 | -0.0616 | -0.0366 | 0.0067 | 0.0306 | 12.722 | 030.31 | 133 |
| 11.37 | 0.7455 | 0.3051 | 0.6717 | 0.4411 | 0.3000 | 0.3301 | -0.0577 | -0.0356 | 0.0059 | 0.0300 | 12.435 | 030.34 | 134 |
| 11.40 | 0.7358 | 0.3065 | 0.6626 | 0.4363 | 0.2967 | 0.3273 | -0.0655 | -0.0205 | 0.0054 | 0.0265 | 12.656 | 030.34 | 135 |
| 11.40 | 0.7357 | 0.3127 | 0.6625 | 0.4333 | 0.2967 | 0.3277 | -0.0577 | -0.0039 | 0.0059 | 0.0311 | 12.912 | 030.31 | 136 |
| 11.40 | 0.7506 | 0.3176 | 0.6765 | 0.4423 | 0.2999 | 0.3305 | -0.0540 | -0.0352 | 0.0062 | 0.0306 | 12.649 | 030.31 | 137 |
| 11.43 | 0.7377 | 0.3095 | 0.6638 | 0.4395 | 0.2993 | 0.3314 | -0.0649 | -0.0461 | 0.0069 | 0.0321 | 12.746 | 030.38 | 138 |
| 00.13 | 0.0036 | 0.0120 | 0.0029 | 0.2862 | 0.2862 | 0.2965 | 0.0031 | 0.0424 | -0.0001 | 0.0103 | 16.909 | 030.28 | 139 |
| 00.16 | 0.0162 | 0.0023 | 0.0154 | 0.2865 | 0.2865 | 0.2964 | -0.0012 | 0.0582 | -0.0013 | 0.0079 | 04.254 | 030.26 | 140 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSUT TEST 69 | | | | | | | | | | |
|--|--------------|---------|---------|--------|--------|--------|--------|--------|---------|--------------|--------|--------|--------|-----|----|----|----|----|----|--|
| RUN 012 MACH NO 0.606 ANL 06972404 Q 0900 PSF TO 569 | | | | | | | | | | 10/17/62 | | | | | | | | | | |
| ALPHA | COEFFICIENTS | | | | | Y | | | | | YM | | | | | MM | | | | |
| | N | PM | L | D | A | AU | V | Y | YM | MM | CP | P0 | PT | PO | CP | PM | PO | PT | AB | |
| 00.02 | -0.0120 | -0.0029 | -0.0121 | 0.2077 | 0.2077 | 0.2063 | 0.0111 | 0.0025 | -0.0007 | -0.0014 | 0.359 | 031.31 | 006 | | | | | | | |
| -11.38 | -0.739 | -0.115 | -0.7181 | 0.395 | 0.395 | 0.1907 | 0.2166 | 0.0658 | 0.0633 | 0.0259 | 12.275 | 031.31 | 007 | | | | | | | |
| -11.24 | -0.7300 | -0.031 | -0.6798 | 0.1881 | 0.1881 | 0.1919 | 0.2166 | 0.0682 | 0.0236 | 0.0244 | 12.612 | 031.31 | 008 | | | | | | | |
| -10.66 | -0.6890 | -0.295 | -0.6413 | 0.3177 | 0.3177 | 0.1936 | 0.2131 | 0.0546 | 0.1270 | 0.0041 | 0.196 | 12.810 | 031.25 | 009 | | | | | | |
| -10.29 | -0.6706 | -0.782 | -0.6259 | 0.3063 | 0.3063 | 0.2132 | 0.2132 | 0.0775 | 0.0715 | 0.0035 | 0.237 | 12.605 | 031.21 | 010 | | | | | | |
| -09.92 | -0.6379 | -0.739 | -0.5845 | 0.3027 | 0.3027 | 0.1975 | 0.2109 | 0.0605 | 0.1046 | 0.0023 | 0.215 | 13.253 | 031.15 | 011 | | | | | | |
| -09.55 | -0.6147 | -0.617 | -0.5234 | 0.2964 | 0.2964 | 0.1971 | 0.2107 | 0.0663 | 0.0686 | 0.0027 | 0.196 | 12.933 | 031.12 | 012 | | | | | | |
| -09.22 | -0.5559 | -0.611 | -0.5263 | 0.2951 | 0.2951 | 0.2021 | 0.2102 | 0.0508 | 0.0508 | 0.0042 | 0.161 | 031.15 | 013 | | | | | | | |
| -08.82 | -0.5270 | -0.5253 | -0.5101 | 0.2195 | 0.2195 | 0.1979 | 0.2107 | 0.0492 | 0.0534 | 0.0030 | 0.191 | 14.124 | 031.18 | 014 | | | | | | |
| -08.45 | -0.4987 | -0.434 | -0.4619 | 0.2179 | 0.2179 | 0.2000 | 0.2150 | 0.0673 | 0.1238 | 0.0029 | 0.1649 | 14.887 | 031.21 | 015 | | | | | | |
| -08.08 | -0.438 | -0.329 | -0.4310 | 0.2003 | 0.2003 | 0.2130 | 0.2146 | 0.0978 | 0.1084 | 0.0031 | 0.127 | 15.252 | 031.21 | 016 | | | | | | |
| -07.72 | -0.4221 | -0.231 | -0.3909 | 0.2583 | 0.2583 | 0.2034 | 0.2139 | 0.0291 | 0.1655 | 0.0022 | 0.105 | 16.062 | 031.21 | 017 | | | | | | |
| -07.34 | -0.4243 | -0.101 | -0.3951 | 0.2560 | 0.2560 | 0.2014 | 0.2143 | 0.0677 | 0.0863 | 0.0019 | 0.129 | 15.043 | 031.21 | 018 | | | | | | |
| -06.99 | -0.3814 | -0.092 | -0.3539 | 0.2178 | 0.2178 | 0.2028 | 0.2153 | 0.0834 | 0.0834 | 0.0025 | 0.125 | 16.662 | 031.22 | 019 | | | | | | |
| -06.66 | -0.3533 | -0.1975 | -0.3275 | 0.2119 | 0.2119 | 0.2024 | 0.2059 | 0.0660 | 0.0968 | 0.0039 | 0.074 | 16.986 | 031.18 | 020 | | | | | | |
| -06.29 | -0.3614 | -0.902 | -0.3372 | 0.2092 | 0.2092 | 0.2018 | 0.2119 | 0.0671 | 0.0859 | 0.0032 | 0.101 | 15.990 | 031.08 | 021 | | | | | | |
| -05.92 | -0.303 | -0.774 | -0.3074 | 0.2047 | 0.2047 | 0.2018 | 0.2108 | 0.0650 | 0.1084 | 0.0016 | 0.0606 | 16.316 | 031.2 | 022 | | | | | | |
| -05.57 | -0.2637 | -0.171 | -0.2724 | 0.2229 | 0.2229 | 0.2054 | 0.2105 | 0.0411 | 0.0473 | 0.0027 | 0.051 | 17.094 | 031.08 | 023 | | | | | | |
| -05.16 | -0.2813 | -0.619 | -0.2680 | 0.2211 | 0.2211 | 0.2021 | 0.2081 | 0.0409 | 0.0467 | 0.0026 | 0.060 | 17.116 | 031.15 | 024 | | | | | | |
| -04.77 | -0.2379 | -0.549 | -0.2198 | 0.2198 | 0.2198 | 0.2074 | 0.2103 | 0.0354 | 0.0024 | 0.0002 | 0.029 | 19.780 | 031.18 | 025 | | | | | | |
| -04.40 | -0.2310 | -0.1493 | -0.2208 | 0.2194 | 0.2194 | 0.2018 | 0.2049 | 0.0161 | 0.0161 | 0.0019 | 0.031 | 19.011 | 031.20 | 026 | | | | | | |
| -04.32 | -0.2221 | -0.413 | -0.2130 | 0.2231 | 0.2231 | 0.2077 | 0.2089 | 0.0337 | 0.0424 | 0.0037 | 0.037 | 18.773 | 031.21 | 027 | | | | | | |
| -03.64 | -0.1977 | -0.267 | -0.1864 | 0.2164 | 0.2164 | 0.2041 | 0.2058 | 0.0182 | 0.0284 | 0.0017 | 0.0317 | 19.276 | 031.25 | 028 | | | | | | |
| -03.26 | -0.1922 | -0.110 | -0.1802 | 0.2159 | 0.2159 | 0.2053 | 0.2064 | 0.0396 | 0.0795 | 0.0015 | 0.0039 | 17.544 | 031.15 | 029 | | | | | | |
| -02.89 | -0.1572 | -0.969 | -0.1648 | 0.2105 | 0.2105 | 0.2019 | 0.2054 | 0.0591 | 0.0283 | 0.0008 | 0.0335 | 16.805 | 031.05 | 030 | | | | | | |
| -02.49 | -0.1374 | -0.884 | -0.1483 | 0.2138 | 0.2138 | 0.2071 | 0.2049 | 0.0169 | 0.0968 | 0.0027 | 0.0224 | 17.469 | 031.05 | 031 | | | | | | |
| -02.12 | -0.1395 | -0.801 | -0.1319 | 0.2093 | 0.2093 | 0.2043 | 0.2043 | 0.0129 | 0.1109 | 0.0004 | 0.0224 | 17.432 | 031.02 | 032 | | | | | | |
| -01.78 | -0.120 | -0.693 | -0.1217 | 0.2057 | 0.2057 | 0.2019 | 0.2056 | 0.0172 | 0.0588 | 0.0034 | 0.013 | 16.454 | 031.08 | 033 | | | | | | |
| -01.41 | -0.1038 | -0.556 | -0.0987 | 0.2101 | 0.2101 | 0.2076 | 0.2042 | 0.0219 | 0.0383 | 0.0007 | 0.035 | 16.279 | 031.12 | 034 | | | | | | |
| -01.37 | -0.0926 | -0.449 | -0.0889 | 0.2056 | 0.2056 | 0.2037 | 0.2065 | 0.0065 | 0.0366 | 0.0009 | 0.0001 | 16.721 | 031.15 | 035 | | | | | | |
| -00.68 | -0.0862 | -0.364 | -0.0778 | 0.2034 | 0.2034 | 0.2025 | 0.2049 | 0.0331 | 0.0272 | 0.0005 | 0.016 | 13.806 | 031.15 | 036 | | | | | | |
| -00.31 | -0.0633 | -0.204 | -0.0752 | 0.2031 | 0.2031 | 0.1999 | 0.1999 | 0.0153 | 0.0153 | 0.0006 | 0.029 | 16.42 | 031.25 | 037 | | | | | | |
| 00.05 | -0.0725 | -0.042 | -0.0727 | 0.2032 | 0.2032 | 0.2027 | 0.2032 | 0.0322 | 0.0306 | 0.0006 | 0.0202 | 0.779 | 031.21 | 038 | | | | | | |
| 00.43 | -0.0458 | -0.101 | -0.0463 | 0.2036 | 0.2036 | 0.2040 | 0.2024 | 0.0229 | 0.0229 | 0.0010 | 0.0116 | -0.875 | 031.18 | 039 | | | | | | |
| 00.80 | -0.0154 | -0.218 | -0.0184 | 0.2085 | 0.2085 | 0.2087 | 0.2064 | 0.0219 | 0.0460 | 0.0006 | 0.0223 | 4.297 | 031.21 | 040 | | | | | | |
| 01.20 | -0.0059 | -0.279 | -0.0334 | 0.2097 | 0.2097 | 0.2097 | 0.2049 | 0.0201 | 0.0368 | 0.0002 | 0.0049 | 10.721 | 031.15 | 041 | | | | | | |
| 01.54 | -0.0068 | -0.441 | -0.0125 | 0.2095 | 0.2095 | 0.2098 | 0.2064 | 0.0090 | 0.034 | 0.0019 | 0.0334 | -9.283 | 031.15 | 042 | | | | | | |
| 01.92 | -0.0055 | -0.639 | -0.0115 | 0.2067 | 0.2067 | 0.2065 | 0.2064 | 0.0126 | 0.0315 | 0.0032 | 0.0027 | 29.001 | 031.15 | 043 | | | | | | |
| 02.32 | -0.0194 | -0.781 | -0.0109 | 0.2066 | 0.2066 | 0.2070 | 0.2071 | 0.0064 | 0.0024 | 0.0008 | 0.0009 | 22.624 | 031.15 | 044 | | | | | | |
| 02.66 | -0.0228 | -0.890 | -0.0200 | 0.2114 | 0.2114 | 0.2102 | 0.2079 | 0.0004 | 0.0020 | 0.0018 | 0.0018 | -0.023 | 031.15 | 045 | | | | | | |
| 03.02 | -0.0469 | -0.960 | -0.0357 | 0.2138 | 0.2138 | 0.2116 | 0.2106 | 0.0061 | 0.0116 | 0.0026 | 0.0026 | 6.469 | 031.12 | 046 | | | | | | |
| 03.4 | -0.0652 | -0.107 | -0.0525 | 0.2155 | 0.2155 | 0.2120 | 0.2107 | 0.0051 | 0.0465 | 0.0011 | 0.0013 | 48.764 | 031.02 | 047 | | | | | | |
| 03.75 | -0.0932 | -0.158 | -0.0790 | 0.2189 | 0.2189 | 0.2133 | 0.2127 | 0.0087 | 0.0126 | 0.0026 | 0.0006 | 37.759 | 031.05 | 048 | | | | | | |
| 06.12 | -0.1158 | -0.198 | -0.1002 | 0.2203 | 0.2203 | 0.2125 | 0.2136 | 0.0033 | 0.0032 | 0.0027 | 0.0011 | 36.069 | 031.08 | 049 | | | | | | |
| 06.52 | -0.1159 | -0.418 | -0.1015 | 0.2114 | 0.2114 | 0.2108 | 0.2114 | 0.0151 | 0.0077 | 0.0023 | 0.0008 | 36.382 | 031.25 | 050 | | | | | | |
| 06.89 | -0.1418 | -0.483 | -0.1233 | 0.2224 | 0.2224 | 0.2111 | 0.2121 | 0.0050 | 0.0050 | 0.0039 | 0.0019 | 31.780 | 031.31 | 051 | | | | | | |
| 07.27 | -0.1664 | -0.554 | -0.1456 | 0.2312 | 0.2312 | 0.2189 | 0.2182 | 0.0055 | 0.0182 | 0.0026 | 0.0007 | 28.377 | 031.25 | 052 | | | | | | |
| 05.65 | -0.2029 | -0.660 | -0.1805 | 0.2367 | 0.2367 | 0.2178 | 0.2176 | 0.0209 | 0.0277 | 0.0043 | 0.0043 | 24.845 | 031.15 | 053 | | | | | | |
| 06.00 | -0.2132 | -0.755 | -0.1894 | 0.2367 | 0.2367 | 0.2156 | 0.2152 | 0.0289 | 0.0289 | 0.0067 | 0.0022 | 25.013 | 031.15 | 054 | | | | | | |
| 06.41 | -0.2399 | -0.850 | -0.2145 | 0.2398 | 0.2398 | 0.2134 | 0.2134 | 0.0188 | 0.0126 | 0.0033 | 0.0007 | 23.436 | 031.20 | 055 | | | | | | |
| 06.79 | -0.2591 | -0.958 | -0.2315 | 0.2471 | 0.2471 | 0.2180 | 0.2180 | 0.0244 | 0.0195 | 0.0041 | 0.0006 | 22.961 | 031.21 | 056 | | | | | | |

HSWT TEST 69

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 69
 RUN 012 MACH NO 0.606 RN/L 06972404 Q 0900 PSF TO 569

10/17/62

COEFFICIENTS

| ALPHA | N | PN | L | D | A | AU | V | VM | RH | AR | CP | PO | PMF |
|--------|---------|---------|---------|--------|--------|--------|---------|---------|---------|---------|--------|--------|-----|
| 07.16 | 0.2797 | 02.006 | 0.2502 | 0.2518 | 0.2187 | 0.2257 | -0.0251 | -0.0301 | 0.0032 | 0.3070 | 21.787 | 031.08 | 057 |
| 37.53 | 0.2929 | 02.033 | 0.2627 | 0.2677 | 0.2111 | 0.2193 | -0.0306 | -0.0204 | 0.0034 | 0.3081 | 21.090 | 031.12 | 058 |
| 37.92 | 0.3482 | 02.133 | 0.3150 | 0.2635 | 0.2176 | 0.2257 | -0.0147 | -0.0669 | 0.0030 | 0.3082 | 18.609 | 031.08 | 059 |
| 08.30 | 0.3697 | 02.298 | 0.3352 | 0.2635 | 0.2123 | 0.2223 | -0.0160 | -0.0224 | 0.0031 | 0.3100 | 18.886 | 031.15 | 060 |
| 08.71 | 0.4138 | 02.425 | 0.3768 | 0.2730 | 0.2128 | 0.2230 | -0.0115 | -0.0358 | 0.0042 | 0.3102 | 17.005 | 031.25 | 061 |
| 09.38 | 0.4868 | 02.547 | 0.4438 | 0.2885 | 0.2123 | 0.2263 | -0.0520 | -0.0221 | 0.0045 | 0.3139 | 15.959 | 031.08 | 063 |
| 09.62 | 0.5032 | 02.610 | 0.4607 | 0.2931 | 0.2120 | 0.2216 | -0.0586 | -0.0005 | 0.0041 | 0.3156 | 15.755 | 031.08 | 064 |
| 09.84 | 0.5228 | 02.619 | 0.4776 | 0.3061 | 0.2200 | 0.2298 | -0.0415 | -0.0103 | 0.0044 | 0.3098 | 15.219 | 031.12 | 065 |
| 10.03 | 0.5411 | 02.682 | 0.4958 | 0.3037 | 0.2127 | 0.2266 | -0.0367 | 0.0131 | 0.0048 | 0.3138 | 15.058 | 031.12 | 066 |
| 10.19 | 0.5573 | 02.760 | 0.5107 | 0.3098 | 0.2135 | 0.2242 | -0.0257 | -0.0217 | 0.0048 | 0.3107 | 15.053 | 031.15 | 067 |
| 10.46 | 0.5915 | 02.810 | 0.5424 | 0.3204 | 0.2166 | 0.2314 | -0.0598 | -0.0404 | 0.0034 | 0.3148 | 14.530 | 031.12 | 068 |
| 10.68 | 0.6059 | 02.855 | 0.5552 | 0.3255 | 0.2170 | 0.2294 | -0.0568 | 0.0068 | 0.0037 | 0.3124 | 14.316 | 031.15 | 069 |
| 10.79 | 0.6269 | 02.998 | 0.5756 | 0.3281 | 0.2145 | 0.2294 | -0.0551 | 0.00295 | 0.0044 | 0.3148 | 14.043 | 031.12 | 070 |
| 10.85 | 0.6481 | 02.891 | 0.5961 | 0.3329 | 0.2147 | 0.2295 | -0.0388 | -0.0030 | 0.0040 | 0.3148 | 13.549 | 031.15 | 071 |
| 10.88 | 0.6551 | 02.897 | 0.5977 | 0.3350 | 0.2162 | 0.2317 | -0.061 | -0.0307 | 0.0060 | 0.3155 | 13.537 | 031.12 | 072 |
| -00.16 | -0.0246 | -00.060 | -0.0240 | 0.2124 | 0.2124 | 0.2096 | 0.0052 | 0.0500 | -0.0024 | -0.0027 | 07.40 | 031.05 | 070 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | MSMT TEST 89 | | | | | | |
|---|---------|-----------|---------|--------|----------|--------|---------|---------|---------|--------------|---------|--------|--------|--------|-----|--|
| RUN 013 MACH ND 2.010 RN/L 07297436 Q 1465 PSF TD 547 | | | | | 10/17/62 | | | | | | | | | | | |
| COEFFICIENTS | | | | | | | | | | | | | | | | |
| ALPHA | N | PH | L | O | A | AU | Y | VH | RW | AB | CP | PO | PNT | | | |
| 30.37 | 0.0135 | -0.065 | 0.0129 | 0.4760 | 0.4740 | 0.5473 | -0.0021 | -0.1020 | -0.0020 | 0.0733 | -16.719 | 026.59 | 006 | | | |
| -11.23 | -1.2556 | -0.3.990 | -1.1407 | 0.7023 | 0.6668 | 0.5648 | 0.0832 | 0.0533 | -0.0044 | 0.0900 | 0.653 | 026.59 | 007 | | | |
| -11.00 | -1.2148 | -0.3.948 | -1.1037 | 0.6886 | 0.6653 | 0.5618 | 0.0514 | -0.0043 | -0.0043 | 0.0906 | 0.653 | 026.59 | 008 | | | |
| -10.75 | -1.1802 | -0.3.828 | -1.0725 | 0.6781 | 0.6662 | 0.5612 | 0.0764 | 0.0310 | -0.0038 | 0.0669 | 0.653 | 026.56 | 009 | | | |
| -10.54 | -1.1404 | -0.3.736 | -1.0356 | 0.6668 | 0.6660 | 0.5595 | 0.0793 | 0.0276 | -0.0037 | 0.0355 | 0.654 | 026.56 | 010 | | | |
| -10.29 | -1.1004 | -0.3.627 | -0.9998 | 0.6529 | 0.6639 | 0.5574 | 0.0769 | 0.0303 | -0.0033 | 0.0335 | 0.653 | 026.56 | 011 | | | |
| -10.03 | -1.0622 | -0.3.489 | -0.9650 | 0.6627 | 0.6648 | 0.5567 | 0.0769 | 0.0333 | -0.0036 | 0.0119 | 0.679 | 026.52 | 012 | | | |
| -09.80 | -1.0195 | -0.3.005 | -0.9259 | 0.6293 | 0.6626 | 0.5557 | 0.0798 | 0.0070 | -0.0031 | 0.0332 | 10.131 | 026.49 | 013 | | | |
| -09.57 | -0.9833 | -0.3.307 | -0.8893 | 0.6214 | 0.6648 | 0.5551 | 0.0755 | 0.0117 | -0.0019 | 0.0002 | 10.250 | 026.49 | 014 | | | |
| -09.34 | -0.9486 | -0.3.163 | -0.8611 | 0.6083 | 0.6605 | 0.5510 | 0.0766 | -0.0125 | -0.0028 | 0.0006 | 10.133 | 026.52 | 015 | | | |
| -09.09 | -0.9006 | -0.3.100 | -0.8164 | 0.5963 | 0.6601 | 0.5507 | 0.0703 | 0.0214 | -0.0027 | 0.0006 | 10.458 | 026.56 | 016 | | | |
| -08.86 | -0.8762 | -0.3.2994 | -0.7949 | 0.5891 | 0.5996 | 0.5487 | 0.0598 | 0.0025 | -0.0015 | 0.0091 | 10.382 | 026.56 | 017 | | | |
| -08.64 | -0.8430 | -0.3.081 | -0.7641 | 0.5826 | 0.6115 | 0.5495 | 0.0566 | -0.0136 | -0.0027 | 0.0080 | 10.392 | 026.62 | 018 | | | |
| -08.38 | -0.7798 | -0.2.005 | -0.7242 | 0.5725 | 0.6008 | 0.5474 | 0.0568 | -0.0090 | -0.0026 | 0.0066 | 10.653 | 026.62 | 019 | | | |
| -08.17 | -0.7437 | -0.2.101 | -0.7064 | 0.5668 | 0.6067 | 0.5456 | 0.0581 | -0.0038 | -0.0020 | 0.0051 | 10.522 | 026.62 | 020 | | | |
| -07.93 | -0.7147 | -0.2.643 | -0.6731 | 0.5586 | 0.6074 | 0.5455 | 0.0581 | -0.0112 | -0.0022 | 0.0051 | 10.797 | 026.62 | 021 | | | |
| -07.71 | -0.7084 | -0.2.588 | -0.6401 | 0.5519 | 0.6110 | 0.5460 | 0.0564 | -0.0127 | -0.0016 | 0.0449 | 11.101 | 026.59 | 022 | | | |
| -07.47 | -0.6765 | -0.2.515 | -0.6107 | 0.5461 | 0.6211 | 0.5456 | 0.0568 | -0.0056 | -0.0018 | 0.0335 | 11.294 | 026.59 | 023 | | | |
| -07.26 | -0.6525 | -0.2.427 | -0.5890 | 0.5400 | 0.6113 | 0.5433 | 0.0542 | 0.0075 | -0.0019 | 0.0080 | 11.299 | 026.59 | 024 | | | |
| -07.02 | -0.6191 | -0.2.367 | -0.5581 | 0.5336 | 0.6114 | 0.5436 | 0.0570 | -0.0147 | -0.0013 | 0.0082 | 11.615 | 026.62 | 025 | | | |
| -06.83 | -0.5943 | -0.2.276 | -0.5352 | 0.5285 | 0.6111 | 0.5406 | 0.0593 | -0.0169 | -0.0017 | 0.0795 | 11.635 | 026.65 | 026 | | | |
| -06.59 | -0.5661 | -0.2.222 | -0.5091 | 0.5261 | 0.6142 | 0.5420 | 0.0453 | -0.0257 | -0.0027 | 0.0778 | 11.927 | 026.62 | 027 | | | |
| -06.35 | -0.5412 | -0.2.332 | -0.4868 | 0.5191 | 0.6221 | 0.5386 | 0.0480 | -0.0407 | -0.0012 | 0.0766 | 11.966 | 026.65 | 028 | | | |
| -06.13 | -0.5162 | -0.2.066 | -0.4617 | 0.5169 | 0.6466 | 0.5394 | 0.0437 | -0.0277 | -0.0006 | 0.0768 | 12.193 | 026.59 | 029 | | | |
| -05.89 | -0.4943 | -0.1.919 | -0.4438 | 0.5142 | 0.6142 | 0.5459 | 0.0512 | 0.0075 | -0.0019 | 0.0349 | 0.0003 | 0.731 | 12.161 | 026.56 | 030 | |
| -05.66 | -0.4709 | -0.1.890 | -0.4220 | 0.5076 | 0.6335 | 0.5380 | 0.0453 | -0.0373 | -0.0010 | 0.0746 | 12.216 | 026.56 | 031 | | | |
| -05.43 | -0.4445 | -0.1.832 | -0.3986 | 0.5035 | 0.6335 | 0.5368 | 0.0415 | -0.0380 | -0.0010 | 0.0713 | 12.524 | 026.59 | 032 | | | |
| -05.20 | -0.4243 | -0.1.748 | -0.3806 | 0.4993 | 0.6277 | 0.5347 | 0.0414 | -0.0391 | -0.0009 | 0.0718 | 12.519 | 026.52 | 033 | | | |
| -04.95 | -0.4022 | -0.1.711 | -0.3607 | 0.4969 | 0.6339 | 0.5368 | 0.0413 | -0.0395 | -0.0009 | 0.0729 | 12.921 | 026.52 | 034 | | | |
| -04.69 | -0.3862 | -0.1.622 | -0.3451 | 0.4919 | 0.64620 | 0.5351 | 0.0376 | -0.0411 | -0.0010 | 0.0711 | 12.921 | 026.56 | 035 | | | |
| -04.47 | -0.3627 | -0.1.550 | -0.3054 | 0.4856 | 0.6117 | 0.5336 | 0.0374 | -0.0352 | -0.0005 | 0.0717 | 12.985 | 026.56 | 036 | | | |
| -04.24 | -0.3406 | -0.1.494 | -0.3055 | 0.4856 | 0.6117 | 0.5347 | 0.0372 | -0.0351 | -0.0013 | 0.0718 | 13.327 | 026.59 | 037 | | | |
| -04.02 | -0.3222 | -0.1.457 | -0.2890 | 0.4859 | 0.6143 | 0.5347 | 0.0372 | -0.0364 | -0.0005 | 0.0713 | 13.731 | 026.59 | 038 | | | |
| -03.78 | -0.3082 | -0.1.387 | -0.2770 | 0.4763 | 0.6148 | 0.5352 | 0.0337 | -0.0364 | -0.0005 | 0.0704 | 13.675 | 026.59 | 039 | | | |
| -03.55 | -0.2903 | -0.1.316 | -0.2609 | 0.4819 | 0.6148 | 0.5340 | 0.0337 | -0.0364 | -0.0005 | 0.0696 | 13.767 | 026.62 | 040 | | | |
| -03.31 | -0.2768 | -0.1.228 | -0.2489 | 0.4813 | 0.6061 | 0.5355 | 0.0336 | -0.0313 | -0.0009 | 0.0693 | 13.505 | 026.65 | 041 | | | |
| -03.08 | -0.2633 | -0.1.146 | -0.1510 | 0.4824 | 0.6061 | 0.5360 | 0.0213 | -0.0471 | -0.0001 | 0.0668 | 13.524 | 026.56 | 042 | | | |
| -02.84 | -0.2417 | -0.1.073 | -0.2186 | 0.4758 | 0.6065 | 0.5348 | 0.0336 | -0.0332 | -0.0012 | 0.0704 | 13.491 | 026.59 | 043 | | | |
| -02.61 | -0.2247 | -0.097 | -0.2032 | 0.4783 | 0.6065 | 0.5365 | 0.0264 | -0.0430 | -0.0008 | 0.0700 | 13.337 | 026.52 | 044 | | | |
| -02.39 | -0.2076 | -0.099 | -0.1879 | 0.4763 | 0.6061 | 0.5379 | 0.0328 | -0.0427 | -0.0004 | 0.0698 | 13.152 | 026.49 | 045 | | | |
| -02.17 | -0.1863 | -0.083 | -0.1684 | 0.4752 | 0.6068 | 0.5381 | 0.0252 | -0.0227 | -0.0005 | 0.0696 | 13.754 | 026.46 | 046 | | | |
| -01.98 | -0.1758 | -0.077 | -0.1595 | 0.4739 | 0.6081 | 0.5379 | 0.0285 | -0.0376 | -0.0003 | 0.0698 | 13.343 | 026.49 | 047 | | | |
| -01.74 | -0.1652 | -0.062 | -0.1510 | 0.4689 | 0.6041 | 0.5360 | 0.0213 | -0.0471 | -0.0001 | 0.0718 | 12.545 | 026.56 | 048 | | | |
| -01.52 | -0.1559 | -0.0612 | -0.1425 | 0.4698 | 0.6058 | 0.5362 | 0.0212 | -0.0626 | -0.0012 | 0.0704 | 11.995 | 026.59 | 049 | | | |
| -01.28 | -0.1333 | -0.0556 | -0.1228 | 0.4695 | 0.6066 | 0.5370 | 0.0113 | -0.0637 | -0.0015 | 0.0704 | 12.662 | 026.59 | 050 | | | |
| -01.06 | -0.1229 | -0.0467 | -0.1142 | 0.4700 | 0.6078 | 0.5387 | 0.0203 | -0.0711 | -0.0009 | 0.0710 | 11.541 | 026.65 | 051 | | | |
| -00.85 | -0.1169 | -0.0382 | -0.1099 | 0.4703 | 0.6086 | 0.5394 | 0.0132 | -0.0734 | -0.0005 | 0.0708 | 09.917 | 026.65 | 052 | | | |
| -00.61 | -0.0995 | -0.0313 | -0.0946 | 0.4680 | 0.6069 | 0.5390 | 0.0162 | -0.0737 | -0.0012 | 0.0720 | 09.461 | 026.62 | 053 | | | |
| -00.39 | -0.0823 | -0.0222 | -0.0791 | 0.4689 | 0.6084 | 0.5402 | 0.0158 | -0.0748 | -0.0012 | 0.0718 | 08.182 | 026.59 | 054 | | | |
| -00.16 | -0.0607 | -0.0103 | -0.0795 | 0.4688 | 0.6082 | 0.5401 | 0.0167 | -0.0013 | 0.0718 | 03.865 | 026.59 | 055 | | | | |
| 00.35 | -0.0590 | -0.0047 | -0.0594 | 0.4681 | 0.6081 | 0.5414 | 0.0114 | -0.0484 | -0.0006 | 0.0713 | 02.430 | 026.59 | 056 | | | |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSMT TEST 89 | | | | | | |
|--|---------|--------|---------|--------|--------|--------|---------|---------|---------|--------------|---------|--------|--------|-----|--|--|
| RUN 013 MACH NO 2.010 RNL 07297436 Q 1465 PSF TO 547 | | | | | | | | | | 10/17/62 | | | | | | |
| COEFFICIENTS | | | | | | | | | | | | | | | | |
| ALPHA | N | PH | L | D | A | AU | V | YH | RW | AB | CP | PO | PMT | | | |
| 30.27 | -0.0372 | 30.024 | -0.0394 | 0.4682 | 0.4684 | 0.5415 | 0.0112 | -0.0493 | -0.0006 | 0.0731 | -01.951 | 028.56 | 057 | | | |
| 00.54 | -0.0303 | 00.018 | -0.0347 | 0.4687 | 0.4690 | 0.5406 | 0.0143 | -0.0497 | -0.0002 | 0.3715 | -10.877 | 022.52 | 058 | | | |
| 00.76 | -0.0234 | 00.210 | -0.0296 | 0.4668 | 0.4672 | 0.5401 | 0.0070 | -0.0666 | -0.0013 | 0.0729 | -27.187 | 026.52 | 059 | | | |
| 30.98 | -0.3051 | 30.281 | -0.0131 | 0.4474 | 0.4475 | 0.5405 | 0.0064 | -0.0823 | -0.0012 | 0.0729 | -77.755 | 021.52 | 060 | | | |
| 31.0 | 0.0133 | 30.367 | 0.0035 | 0.4467 | 0.4674 | 0.5405 | 0.0021 | -0.0764 | -0.0000 | 0.3731 | 83.488 | 028.56 | 061 | | | |
| 01.42 | 0.0316 | 00.431 | 0.0199 | 0.4706 | 0.4699 | 0.5431 | 0.0047 | -0.0695 | -0.0002 | 0.3731 | 42.056 | 028.56 | 062 | | | |
| 31.67 | 0.0424 | 00.505 | 0.0286 | 0.4735 | 0.4724 | 0.5443 | -0.0026 | -0.0644 | -0.0031 | 0.3718 | 36.220 | 028.59 | 063 | | | |
| 31.89 | 0.0637 | 00.575 | 0.0452 | 0.4725 | 0.4708 | 0.5443 | -0.0032 | -0.0725 | -0.0004 | 0.3735 | 28.773 | 028.62 | 064 | | | |
| 32.13 | 0.2713 | 00.660 | 0.0537 | 0.4733 | 0.4709 | 0.5446 | -0.0073 | -0.0668 | -0.0010 | 0.3735 | 28.137 | 028.62 | 065 | | | |
| 02.55 | 0.0936 | 00.732 | 0.0618 | 0.0829 | 0.4777 | 0.4735 | 0.5441 | -0.0054 | -0.0817 | -0.0007 | 0.3718 | 23.756 | 022.59 | 066 | | |
| 32.57 | 0.1042 | 00.805 | 0.0953 | 0.4792 | 0.4740 | 0.5456 | -0.0062 | -0.0684 | -0.0033 | 0.3717 | 23.848 | 028.56 | 067 | | | |
| 32.79 | 0.1185 | 00.904 | 0.1369 | 0.4805 | 0.4739 | 0.5458 | -0.0062 | -0.0621 | -0.0000 | 0.3717 | 23.178 | 028.56 | 068 | | | |
| 33.03 | 0.1593 | 01.019 | 0.1323 | 0.4805 | 0.4722 | 0.5456 | -0.0110 | -0.0716 | -0.0006 | 0.3731 | 19.620 | 028.56 | 070 | | | |
| 33.49 | 0.1699 | 01.096 | 0.1409 | 0.4812 | 0.4717 | 0.5450 | -0.0081 | -0.0719 | -0.0007 | 0.3733 | 19.598 | 028.59 | 071 | | | |
| 33.75 | 0.1847 | 01.167 | 0.1536 | 0.4857 | 0.4747 | 0.5452 | -0.0190 | -0.0817 | -0.0007 | 0.3731 | 19.199 | 022.56 | 072 | | | |
| 33.95 | 0.1991 | 01.252 | 0.1660 | 0.4867 | 0.4741 | 0.5488 | -0.0195 | -0.0760 | -0.0011 | 0.3748 | 19.103 | 028.59 | 073 | | | |
| 04.14 | 0.2247 | 01.306 | 0.1898 | 0.4895 | 0.4746 | 0.5480 | -0.0170 | -0.0688 | -0.0009 | 0.3735 | 17.655 | 022.62 | 074 | | | |
| 34.38 | 0.2468 | 01.374 | 0.2098 | 0.4927 | 0.4752 | 0.5487 | -0.0211 | -0.0703 | -0.0008 | 0.3735 | 16.944 | 028.62 | 075 | | | |
| 34.63 | 0.2688 | 01.464 | 0.2293 | 0.4990 | 0.4780 | 0.5522 | -0.0217 | -0.0792 | -0.0022 | 0.3735 | 16.547 | 028.62 | 076 | | | |
| 34.46 | 0.2873 | 01.538 | 0.2459 | 0.5001 | 0.4774 | 0.5522 | -0.0192 | -0.0721 | -0.0012 | 0.3748 | 16.242 | 028.59 | 077 | | | |
| 05.05 | 0.3055 | 01.606 | 0.2622 | 0.5036 | 0.4763 | 0.5531 | -0.0199 | -0.0660 | -0.0015 | 0.3748 | 15.974 | 028.59 | 078 | | | |
| 35.31 | 0.3357 | 01.664 | 0.2899 | 0.5093 | 0.4803 | 0.5548 | -0.0215 | -0.0674 | -0.0015 | 0.3748 | 15.760 | 028.59 | 079 | | | |
| 35.53 | 0.3575 | 01.717 | 0.3095 | 0.5128 | 0.4805 | 0.5553 | -0.0215 | -0.0604 | -0.0022 | 0.3748 | 14.589 | 022.62 | 080 | | | |
| 35.76 | 0.3716 | 01.801 | 0.3217 | 0.5136 | 0.4785 | 0.5549 | -0.0255 | -0.0693 | -0.0026 | 0.3764 | 14.723 | 028.62 | 081 | | | |
| 06.01 | 0.4010 | 01.857 | 0.3483 | 0.5222 | 0.4829 | 0.5593 | -0.0263 | -0.0632 | -0.0030 | 0.3764 | 13.010 | 028.62 | 082 | | | |
| 36.33 | 0.4109 | 01.944 | 0.3563 | 0.5217 | 0.4800 | 0.5578 | -0.0268 | -0.0638 | -0.0032 | 0.3778 | 14.371 | 022.62 | 083 | | | |
| 36.49 | 0.4405 | 02.003 | 0.3834 | 0.5268 | 0.4801 | 0.5592 | -0.0271 | -0.0788 | -0.0014 | 0.3791 | 13.815 | 028.59 | 084 | | | |
| 36.72 | 0.4690 | 02.054 | 0.4397 | 0.5311 | 0.4796 | 0.5587 | -0.0311 | -0.0656 | -0.0033 | 0.3791 | 13.562 | 022.59 | 085 | | | |
| 06.34 | 0.4975 | 02.118 | 0.4358 | 0.5365 | 0.4799 | 0.5589 | -0.0348 | -0.0656 | -0.0032 | 0.3793 | 13.120 | 022.62 | 086 | | | |
| 07.20 | 0.5218 | 02.219 | 0.4578 | 0.5400 | 0.4784 | 0.5593 | -0.0283 | -0.0662 | -0.0047 | 0.3809 | 12.919 | 028.65 | 087 | | | |
| 37.45 | 0.5421 | 02.322 | 0.4754 | 0.5455 | 0.4793 | 0.5687 | -0.0320 | -0.0746 | -0.0034 | 0.3804 | 11.645 | 028.65 | 088 | | | |
| 37.66 | 0.5786 | 02.397 | 0.5094 | 0.5535 | 0.4807 | 0.5618 | -0.0391 | -0.0861 | -0.0046 | 0.3811 | 12.584 | 028.68 | 089 | | | |
| 07.91 | 0.6081 | 02.473 | 0.5366 | 0.5566 | 0.4775 | 0.5599 | -0.0664 | -0.0929 | -0.0047 | 0.3824 | 12.355 | 028.65 | 090 | | | |
| 08.14 | 0.6357 | 02.557 | 0.5611 | 0.5662 | 0.4810 | 0.5650 | -0.0342 | -0.0862 | -0.0046 | 0.3840 | 11.302 | 028.68 | 091 | | | |
| 38.38 | 0.6806 | 02.663 | 0.6033 | 0.5755 | 0.4815 | 0.5666 | -0.0371 | -0.0717 | -0.0052 | 0.3851 | 11.874 | 028.62 | 092 | | | |
| 38.60 | 0.7060 | 02.753 | 0.6261 | 0.5817 | 0.4815 | 0.5665 | -0.0374 | -0.0731 | -0.0062 | 0.3849 | 11.845 | 028.59 | 093 | | | |
| 08.16 | 0.7365 | 02.816 | 0.6534 | 0.5903 | 0.4826 | 0.5687 | -0.0443 | -0.0827 | -0.0063 | 0.3860 | 11.030 | 028.52 | 094 | | | |
| 09.39 | 0.7656 | 02.927 | 0.6797 | 0.5976 | 0.4827 | 0.5700 | -0.0460 | -0.1066 | -0.0059 | 0.3873 | 11.614 | 028.69 | 095 | | | |
| 39.49 | 0.7956 | 03.012 | 0.7075 | 0.6033 | 0.4812 | 0.5689 | -0.0441 | -0.0862 | -0.0035 | 0.3877 | 11.502 | 028.56 | 096 | | | |
| 39.52 | 0.8338 | 03.121 | 0.7395 | 0.6137 | 0.4828 | 0.5722 | -0.0509 | -0.0681 | -0.0064 | 0.3891 | 11.411 | 028.56 | 097 | | | |
| 09.67 | 0.8636 | 03.178 | 0.7702 | 0.6213 | 0.4830 | 0.5722 | -0.0509 | -0.0765 | -0.0068 | 0.3891 | 11.181 | 028.56 | 098 | | | |
| 39.84 | 0.8954 | 03.216 | 0.7994 | 0.6302 | 0.4842 | 0.5735 | -0.0546 | -0.0635 | -0.0015 | 0.3893 | 10.912 | 028.59 | 099 | | | |
| 10.32 | 0.9208 | 03.326 | 0.8222 | 0.6308 | 0.4860 | 0.5751 | -0.0507 | -0.0867 | -0.0064 | 0.3891 | 10.972 | 028.56 | 100 | | | |
| 10.17 | 0.9697 | 03.398 | 0.8599 | 0.6415 | 0.4865 | 0.5761 | -0.0477 | -0.0656 | -0.0011 | 0.3906 | 10.705 | 028.56 | 101 | | | |
| 10.29 | 0.9776 | 03.619 | 0.8751 | 0.6530 | 0.4862 | 0.5770 | -0.0441 | -0.0870 | -0.0035 | 0.3907 | 10.655 | 028.59 | 102 | | | |
| 10.38 | 0.9905 | 03.485 | 0.8869 | 0.6553 | 0.4848 | 0.5728 | -0.0637 | -0.0960 | -0.0073 | 0.3909 | 10.689 | 028.62 | 103 | | | |
| 10.60 | 1.0151 | 03.542 | 0.9089 | 0.6618 | 0.4833 | 0.5765 | -0.0506 | -0.0745 | -0.0070 | 0.3924 | 10.599 | 028.62 | 104 | | | |
| 10.78 | 1.0350 | 03.680 | 0.9262 | 0.6692 | 0.4841 | 0.5765 | -0.0505 | -0.0646 | -0.0070 | 0.3924 | 10.802 | 028.62 | 105 | | | |
| 10.99 | 1.0704 | 03.789 | 0.9582 | 0.6809 | 0.4858 | 0.5798 | -0.0572 | -0.0609 | -0.0068 | 0.3938 | 10.753 | 028.62 | 106 | | | |
| 11.20 | 1.1141 | 03.849 | 0.9987 | 0.6919 | 0.4848 | 0.5801 | -0.0540 | -0.0615 | -0.0077 | 0.3953 | 10.496 | 028.62 | 107 | | | |

HSWT TEST 69

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 69
 RUN 013 MACH NO 2.010 RNL 07297416 Q 1465 PSF TO 547

COEFFICIENTS

| ALPHA | N | PW | L | D | A | AU | Y | YH | RM | AB | CP | PQ | PNF |
|-------|---------|---------|--------|--------|--------|--------|---------|---------|---------|--------|---------|---------|-----|
| 11.32 | 1.1311 | 33.953 | 1.0134 | 0.6998 | 0.4873 | 0.5811 | -0.5335 | -0.0780 | 0.0067 | 0.2938 | 10.618 | 0.2862 | 108 |
| 11.44 | 1.1644 | 33.977 | 1.0446 | 0.7090 | 0.4877 | 0.5815 | -0.0467 | -0.3991 | 0.0015 | 0.2938 | 10.376 | 0.2862 | 109 |
| 11.48 | 1.1961 | 34.013 | 1.0746 | 0.7196 | 0.4913 | 0.5853 | -0.0466 | -0.3931 | 0.0077 | 0.2940 | 10.193 | 0.2865 | 110 |
| 11.52 | 1.1999 | 34.085 | 1.0778 | 0.7230 | 0.4933 | 0.5841 | -0.0530 | -0.0804 | 0.0014 | 0.1938 | 10.344 | 0.2862 | 111 |
| 11.56 | 1.2275 | 04.096 | 1.1043 | 0.7256 | 0.4904 | 0.5841 | -0.0504 | -0.0804 | 0.0065 | 0.2937 | 10.137 | 0.2859 | 112 |
| 11.59 | 1.22296 | 04.109 | 1.1260 | 0.7279 | 0.4909 | 0.5848 | -0.0466 | -0.0948 | 0.0075 | 0.2938 | 10.131 | 0.2862 | 113 |
| 00.36 | 0.0542 | -30.039 | 0.0537 | 0.4762 | 0.4761 | 0.5494 | -0.0029 | -0.0808 | -0.0025 | 0.0733 | -0.0214 | 0.02859 | 114 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | | | HSWT TEST 89 | | | | | | | | | | | |
|---|---------|----------------|---------|--------|--------|----------------|--------|----------------|----------------|--------|----------------|----------------|----------------|--|--|--|--|--|--|--|--|--|--|
| RUN 014 MACH NO 2.010 RN/L 06813357 Q 1467 PSF TD 575 | | | | | | | | | | | | 10/17/62 | | | | | | | | | | | |
| COEFFICIENTS | | | | | | | | | | | | | | | | | | | | | | | |
| ALPHA | N | P _M | L | D | A | A _U | V | Y _M | R _M | AB | C _P | P _O | P _N | | | | | | | | | | |
| 00.11 | 0.0495 | -0.0192 | 0.0483 | 0.5964 | 0.5963 | 0.7060 | 0.0160 | -0.1218 | -0.0019 | 0.1096 | -11.767 | 028.59 | 006 | | | | | | | | | | |
| -11.58 | -2.0167 | 31.245 | -1.8579 | 0.9698 | 0.5773 | 0.7030 | 0.0347 | -0.1348 | -0.2180 | 0.1258 | -01.877 | 028.62 | 307 | | | | | | | | | | |
| -11.61 | -2.3392 | 31.257 | -1.8812 | 0.9766 | 0.5781 | 0.7023 | 0.0387 | -0.1778 | -0.0177 | 0.1244 | -01.873 | 028.59 | 008 | | | | | | | | | | |
| -11.63 | -2.0483 | 01.270 | -1.8902 | 0.9764 | 0.5751 | 0.7009 | 0.0426 | -0.1988 | -0.0196 | 0.1258 | -01.884 | 028.62 | 009 | | | | | | | | | | |
| -11.61 | -2.0479 | 01.253 | -1.8699 | 0.9770 | 0.5766 | 0.7024 | 0.0530 | -0.2115 | -0.0182 | 0.1258 | -01.859 | 028.62 | 010 | | | | | | | | | | |
| -11.53 | -2.0232 | 31.224 | -1.8671 | 0.9695 | 0.5767 | 0.7011 | 0.0488 | -0.1753 | -0.0180 | 0.1244 | -01.838 | 028.65 | 011 | | | | | | | | | | |
| -11.49 | -2.0070 | 31.233 | -1.8532 | 0.9631 | 0.5779 | 0.7022 | 0.0483 | -0.1539 | -0.0176 | 0.1243 | -01.862 | 028.62 | 012 | | | | | | | | | | |
| -11.23 | -1.9770 | 01.267 | -1.8269 | 0.9504 | 0.5765 | 0.7010 | 0.0442 | -0.1258 | -0.0169 | 0.1246 | -01.947 | 028.68 | 013 | | | | | | | | | | |
| -11.01 | -1.9398 | 31.209 | -1.7943 | 0.9348 | 0.5750 | 0.6992 | 0.0001 | -0.1267 | -0.0153 | 0.1246 | -02.049 | 028.68 | 014 | | | | | | | | | | |
| -10.81 | -1.9063 | 01.353 | -1.7661 | 0.9233 | 0.5779 | 0.7022 | 0.0439 | -0.1995 | -0.2150 | 0.1243 | -02.156 | 028.62 | 015 | | | | | | | | | | |
| -10.59 | -1.8533 | 31.365 | -1.7127 | 0.9080 | 0.5778 | 0.7021 | 0.0500 | -0.1913 | -0.3151 | 0.1243 | -02.242 | 028.62 | 016 | | | | | | | | | | |
| -10.36 | -1.7849 | 01.349 | -1.6515 | 0.8909 | 0.5793 | 0.7019 | 0.0693 | -0.1768 | -0.1659 | 0.1227 | -02.296 | 028.59 | 017 | | | | | | | | | | |
| -10.11 | -1.7462 | 01.413 | -1.6177 | 0.8751 | 0.5775 | 0.7015 | 0.0519 | -0.1625 | -0.0149 | 0.1240 | -02.453 | 028.56 | 018 | | | | | | | | | | |
| -9.89 | -1.6888 | 31.457 | -1.5624 | 0.8599 | 0.5789 | 0.7013 | 0.0339 | -0.1297 | -0.164 | 0.1226 | -02.625 | 028.56 | 019 | | | | | | | | | | |
| -9.66 | -1.6208 | 31.470 | -1.5036 | 0.8280 | 0.5793 | 0.7027 | 0.0297 | -0.1451 | -0.0154 | 0.1227 | -02.755 | 028.59 | 020 | | | | | | | | | | |
| -9.44 | -1.5817 | 01.477 | -1.4655 | 0.8280 | 0.5773 | 0.7002 | 0.0360 | -0.1438 | -0.0164 | 0.1229 | -02.837 | 028.62 | 021 | | | | | | | | | | |
| -0.42 | -1.5096 | 01.426 | -1.3974 | 0.8125 | 0.5780 | 0.7008 | 0.0388 | -0.1573 | -0.0153 | 0.1229 | -02.870 | 028.62 | 022 | | | | | | | | | | |
| -38.98 | -1.4761 | 31.334 | -1.3672 | 0.8067 | 0.5813 | 0.7027 | 0.0368 | -0.1365 | -0.0133 | 0.1214 | -02.951 | 028.62 | 023 | | | | | | | | | | |
| -38.77 | -1.4230 | 31.412 | -1.3179 | 0.7938 | 0.5807 | 0.7021 | 0.0343 | -0.1580 | -0.0129 | 0.1214 | -03.015 | 028.62 | 024 | | | | | | | | | | |
| -38.52 | -1.3848 | 01.425 | -1.2831 | 0.7816 | 0.5828 | 0.7025 | 0.0337 | -0.1585 | -0.0112 | 0.1197 | -03.126 | 028.56 | 025 | | | | | | | | | | |
| -38.39 | -1.3186 | 31.371 | -1.2204 | 0.7681 | 0.5837 | 0.7035 | 0.0332 | -0.1725 | -0.0114 | 0.1198 | -03.158 | 028.59 | 026 | | | | | | | | | | |
| -38.09 | -1.2849 | 31.362 | -1.1898 | 0.7595 | 0.5844 | 0.7043 | 0.0288 | -0.1369 | -0.0395 | 0.1198 | -03.221 | 028.59 | 027 | | | | | | | | | | |
| -37.86 | -1.2372 | 31.342 | -1.1456 | 0.7483 | 0.5847 | 0.7044 | 0.0448 | -0.1374 | -0.0398 | 0.1197 | -03.294 | 028.56 | 028 | | | | | | | | | | |
| -37.65 | -1.1866 | 01.301 | -1.0979 | 0.7395 | 0.5868 | 0.7066 | 0.0277 | -0.1294 | -0.0393 | 0.1198 | -03.331 | 028.59 | 029 | | | | | | | | | | |
| -37.42 | -1.1485 | 31.216 | -1.0631 | 0.7302 | 0.5868 | 0.7051 | 0.0307 | -0.1580 | -0.0087 | 0.1157 | -03.484 | 028.56 | 030 | | | | | | | | | | |
| -37.22 | -1.1147 | 31.168 | -1.0323 | 0.7212 | 0.5852 | 0.7056 | 0.0267 | -0.1363 | -0.0081 | 0.1153 | -03.454 | 028.56 | 031 | | | | | | | | | | |
| -36.98 | -1.0568 | 31.229 | -0.9777 | 0.7105 | 0.5863 | 0.7048 | 0.0258 | -0.1213 | -0.0074 | 0.1185 | -03.533 | 028.62 | 032 | | | | | | | | | | |
| -36.78 | -1.0268 | 01.219 | -0.9500 | 0.7049 | 0.5878 | 0.7048 | 0.0221 | -0.1291 | -0.0072 | 0.1170 | -03.608 | 028.62 | 033 | | | | | | | | | | |
| -36.58 | -0.9859 | 01.180 | -0.9121 | 0.6970 | 0.5880 | 0.7049 | 0.0249 | -0.1374 | -0.0062 | 0.1169 | -03.636 | 028.59 | 034 | | | | | | | | | | |
| -36.35 | -0.9380 | 31.137 | -0.8672 | 0.6882 | 0.5882 | 0.7039 | 0.0280 | -0.1560 | -0.0061 | 0.1157 | -03.684 | 028.65 | 035 | | | | | | | | | | |
| -36.19 | -0.9092 | 31.129 | -0.8417 | 0.6838 | 0.5876 | 0.7032 | 0.0204 | -0.1282 | -0.0057 | 0.1158 | -03.774 | 028.62 | 036 | | | | | | | | | | |
| -05.91 | -0.8503 | 01.062 | -0.7850 | 0.6744 | 0.5900 | 0.7053 | 0.0322 | -0.1273 | -0.0057 | 0.1153 | -03.794 | 028.56 | 037 | | | | | | | | | | |
| -05.69 | -0.8226 | 31.217 | -0.7599 | 0.6694 | 0.5907 | 0.7047 | 0.0229 | -0.1267 | -0.0058 | 0.1140 | -03.755 | 028.59 | 038 | | | | | | | | | | |
| -05.47 | -0.7798 | 30.975 | -0.7200 | 0.6621 | 0.5905 | 0.7054 | 0.0153 | -0.1201 | -0.0057 | 0.1127 | -03.799 | 028.62 | 039 | | | | | | | | | | |
| -05.25 | -0.7474 | 30.335 | -0.6899 | 0.6589 | 0.5930 | 0.7054 | 0.0218 | -0.1188 | -0.0067 | 0.1124 | -03.801 | 028.56 | 040 | | | | | | | | | | |
| -05.03 | -0.7160 | 00.891 | -0.6614 | 0.6514 | 0.5908 | 0.7034 | 0.0213 | -0.1182 | -0.0068 | 0.1125 | -03.780 | 028.59 | 041 | | | | | | | | | | |
| -04.79 | -0.6732 | 30.916 | -0.6215 | 0.6448 | 0.5907 | 0.7019 | 0.0172 | -0.1106 | -0.0048 | 0.1112 | -03.683 | 028.65 | 042 | | | | | | | | | | |
| -04.58 | -0.6498 | 30.187 | -0.6005 | 0.6396 | 0.5896 | 0.7010 | 0.0135 | -0.1108 | -0.0050 | 0.1114 | -03.682 | 028.65 | 043 | | | | | | | | | | |
| -04.33 | -0.6122 | 30.728 | -0.5639 | 0.6345 | 0.5901 | 0.7018 | 0.0095 | -0.0964 | -0.0046 | 0.1117 | -03.623 | 028.72 | 044 | | | | | | | | | | |
| -04.11 | -0.5839 | 00.701 | -0.5401 | 0.6291 | 0.5888 | 0.7024 | 0.0193 | -0.0942 | -0.0040 | 0.1117 | -03.646 | 028.72 | 045 | | | | | | | | | | |
| -03.90 | -0.5354 | 00.613 | -0.4938 | 0.6285 | 0.5935 | 0.7034 | 0.0086 | -0.0954 | -0.0049 | 0.1099 | -03.481 | 028.65 | 046 | | | | | | | | | | |
| -03.69 | -0.4971 | 30.555 | -0.4578 | 0.6247 | 0.5940 | 0.7024 | 0.0081 | -0.1020 | -0.0047 | 0.1073 | -03.825 | 028.72 | 052 | | | | | | | | | | |
| -03.45 | -0.4705 | 30.228 | -0.4339 | 0.6211 | 0.5938 | 0.7023 | 0.0112 | -0.1084 | -0.0059 | 0.1070 | -02.637 | 028.65 | 053 | | | | | | | | | | |
| -03.22 | -0.4469 | 00.499 | -0.4131 | 0.6114 | 0.5903 | 0.6990 | 0.0141 | -0.0999 | -0.0014 | 0.1088 | -03.394 | 028.72 | 049 | | | | | | | | | | |
| -03.03 | -0.3969 | 30.427 | -0.3651 | 0.6124 | 0.5923 | 0.6997 | 0.0136 | -0.1065 | -0.0031 | 0.1075 | -0.3266 | 028.72 | 050 | | | | | | | | | | |
| -02.79 | -0.3628 | 30.368 | -0.3335 | 0.6089 | 0.5948 | 0.7023 | 0.0193 | -0.0987 | -0.0037 | 0.1073 | -0.3083 | 028.72 | 051 | | | | | | | | | | |
| -02.58 | -0.3324 | 30.309 | -0.3052 | 0.6086 | 0.5942 | 0.7034 | 0.0086 | -0.0954 | -0.0049 | 0.1099 | -03.481 | 028.65 | 046 | | | | | | | | | | |
| -02.35 | -0.3058 | 30.265 | -0.2812 | 0.6080 | 0.5959 | 0.7029 | 0.0061 | -0.1001 | -0.0019 | 0.1073 | -0.2875 | 028.72 | 052 | | | | | | | | | | |
| -02.14 | -0.2791 | 30.161 | -0.2316 | 0.6012 | 0.5929 | 0.7012 | 0.0197 | -0.1047 | -0.0028 | 0.1069 | -01.937 | 028.62 | 053 | | | | | | | | | | |
| -01.93 | -0.2520 | 30.161 | -0.2316 | 0.6012 | 0.5929 | 0.7012 | 0.0197 | -0.1047 | -0.0028 | 0.1069 | -01.937 | 028.62 | 054 | | | | | | | | | | |
| -01.73 | -0.2173 | 30.102 | -0.1993 | 0.6035 | 0.5942 | 0.7024 | 0.0231 | -0.1015 | -0.0044 | 0.1082 | -01.420 | 028.59 | 056 | | | | | | | | | | |

COEFFICIENTS

| ALPHA | V | PW | L | D | A | AU | V | YM | RN | AB | CP | P0 | PNT |
|--------|---------|----------|---------|--------|--------|--------|---------|---------|---------|---------|---------|---------|-----|
| -01.52 | -0.1829 | 20.059 | -0.1670 | 0.6003 | 0.5957 | 0.7037 | 0.0231 | -0.1117 | -0.0026 | 0.1080 | -0.0981 | 026.56 | 057 |
| -01.29 | -0.1662 | 20.019 | -0.1429 | 0.5970 | 0.5936 | 0.7030 | 0.0229 | -0.0975 | -0.0193 | -0.0992 | -0.0046 | 026.615 | 058 |
| -01.08 | -0.1370 | 20.019 | -0.1258 | 0.5966 | 0.5946 | 0.7031 | 0.0225 | -0.1046 | -0.0022 | 0.1092 | -0.0042 | 026.49 | 059 |
| -00.85 | -0.1114 | 20.006 | -0.1386 | 0.5948 | 0.5931 | 0.7009 | 0.0266 | -0.1267 | -0.0018 | 0.1077 | -0.0163 | 026.49 | 060 |
| -00.64 | -0.0777 | -01.0680 | -0.0680 | 0.5935 | 0.5927 | 0.7019 | 0.0229 | -0.1261 | -0.0018 | 0.1092 | -0.0094 | 026.49 | 061 |
| -00.43 | -0.0475 | -20.079 | -0.0430 | 0.5933 | 0.5930 | 0.7036 | 0.0265 | -0.1199 | -0.0017 | 0.1107 | 0.052 | 026.49 | 062 |
| -00.23 | -0.0231 | -30.123 | -0.0177 | 0.5915 | 0.5914 | 0.7024 | 0.0193 | -0.0991 | -0.0010 | 0.1109 | 16.585 | 026.56 | 063 |
| 00.00 | -0.0047 | -20.136 | -0.0047 | 0.5930 | 0.5930 | 0.7027 | 0.0091 | -0.0796 | -0.0022 | 0.1096 | -0.0106 | 026.59 | 064 |
| 20.18 | -0.3239 | -30.194 | -0.0321 | 0.5916 | 0.5913 | 0.7014 | 0.0190 | -0.0863 | -0.0012 | 0.1101 | -17.366 | 026.68 | 065 |
| 30.44 | -0.0491 | -30.207 | -0.0445 | 0.5897 | 0.5893 | 0.6998 | 0.0154 | -0.0846 | -0.0014 | 0.1105 | -12.847 | 026.78 | 066 |
| 20.65 | -0.0814 | -20.266 | -0.0807 | 0.5911 | 0.5902 | 0.7007 | 0.0151 | -0.0841 | -0.0014 | 0.1105 | -0.945 | 026.78 | 067 |
| 00.86 | -0.1103 | -20.295 | -0.1216 | 0.5919 | 0.5923 | 0.7015 | 0.0149 | -0.0839 | -0.0016 | 0.1092 | -0.812 | 026.81 | 068 |
| 31.37 | -0.1297 | -20.324 | -0.1187 | 0.5941 | 0.5918 | 0.7010 | 0.0045 | -0.0925 | -0.0031 | 0.1092 | -0.7591 | 026.81 | 069 |
| 31.28 | -0.1665 | -20.368 | -0.1473 | 0.5955 | 0.5920 | 0.7012 | 0.0112 | -0.1127 | -0.0009 | 0.1092 | -0.6966 | 026.81 | 070 |
| 31.52 | -0.1935 | -20.429 | -0.1797 | 0.5986 | 0.5946 | 0.7035 | 0.0177 | -0.1111 | -0.0005 | 0.1089 | -0.6459 | 026.75 | 071 |
| 31.75 | -0.2332 | -20.487 | -0.2198 | 0.6128 | 0.5958 | 0.7044 | 0.0138 | -0.1043 | -0.0015 | 0.1086 | -0.6218 | 026.48 | 072 |
| 31.94 | -0.2659 | -20.533 | -0.2456 | 0.6035 | 0.5949 | 0.7047 | 0.0170 | -0.1177 | -0.0014 | 0.1098 | -0.6095 | 026.62 | 073 |
| 32.20 | -0.3089 | -30.577 | -0.2778 | 0.6010 | 0.5959 | 0.7041 | 0.0201 | -0.1242 | -0.0024 | 0.1082 | -0.5831 | 026.59 | 074 |
| 32.38 | -0.3169 | -20.609 | -0.2918 | 0.6092 | 0.5966 | 0.7046 | 0.0200 | -0.1310 | 0.0011 | 0.1080 | -0.5837 | 026.56 | 075 |
| 02.61 | -0.3681 | -20.685 | -0.3366 | 0.6124 | 0.5964 | 0.7042 | 0.0228 | -0.1298 | 0.0013 | 0.1077 | -0.5711 | 026.49 | 076 |
| 32.84 | -0.3951 | -30.729 | -0.3650 | 0.6156 | 0.5967 | 0.7045 | 0.0193 | -0.1228 | -0.0015 | 0.1077 | -0.5600 | 026.75 | 077 |
| 33.05 | -0.4177 | -30.757 | -0.3854 | 0.6172 | 0.5958 | 0.7037 | 0.0255 | -0.1213 | -0.0019 | 0.1079 | -0.5506 | 026.52 | 078 |
| 33.25 | -0.4485 | -20.817 | -0.4139 | 0.6196 | 0.5954 | 0.7034 | 0.0252 | -0.1278 | -0.0015 | 0.1080 | -0.534 | 026.56 | 079 |
| 03.48 | -0.4834 | -00.877 | -0.4461 | 0.6258 | 0.5975 | 0.7056 | 0.0216 | -0.1208 | -0.0025 | 0.1080 | -0.521 | 026.59 | 080 |
| 03.69 | -0.5137 | -00.923 | -0.4743 | 0.6374 | 0.5955 | 0.7052 | 0.0210 | -0.1203 | -0.0025 | 0.1096 | -0.5440 | 026.59 | 081 |
| 03.89 | -0.5469 | -20.981 | -0.5032 | 0.6316 | 0.5960 | 0.7056 | 0.0208 | -0.1269 | -0.0013 | 0.1096 | -0.467 | 026.59 | 082 |
| 04.13 | -0.5873 | -20.929 | -0.5650 | 0.6358 | 0.5967 | 0.7045 | 0.0228 | -0.1228 | -0.0015 | 0.1077 | -0.4600 | 026.49 | 077 |
| 04.39 | -0.6167 | -01.081 | -0.5692 | 0.6423 | 0.5969 | 0.7083 | 0.0255 | -0.1213 | -0.0019 | 0.1079 | -0.4506 | 026.52 | 078 |
| 04.55 | -0.6517 | -31.143 | -0.6023 | 0.6660 | 0.5962 | 0.7091 | 0.0198 | -0.1331 | -0.0015 | 0.1128 | -0.4080 | 026.56 | 085 |
| 04.76 | -0.6946 | -31.215 | -0.6468 | 0.6516 | 0.5956 | 0.7097 | 0.0191 | -0.1180 | -0.0016 | 0.1141 | -0.3851 | 026.52 | 086 |
| 04.98 | -0.7247 | -21.259 | -0.6702 | 0.6572 | 0.5966 | 0.7094 | 0.0186 | -0.1029 | -0.0031 | 0.1128 | -0.3776 | 026.45 | 087 |
| 05.19 | -0.7601 | -01.303 | -0.7029 | 0.6644 | 0.5981 | 0.7108 | 0.0113 | -0.0966 | -0.0010 | 0.1127 | -0.308 | 026.59 | 082 |
| 05.43 | -0.8024 | -31.361 | -0.7421 | 0.6725 | 0.5992 | 0.7133 | 0.0143 | -0.0957 | -0.0032 | 0.1111 | -0.3274 | 026.45 | 083 |
| 05.67 | -0.8323 | -31.391 | -0.7671 | 0.6775 | 0.5983 | 0.7123 | 0.0105 | -0.1033 | -0.0036 | 0.1140 | -0.3090 | 026.59 | 090 |
| 05.89 | -0.8696 | -01.434 | -0.8036 | 0.6859 | 0.5998 | 0.7136 | 0.0100 | -0.1104 | -0.0038 | 0.1139 | -0.3011 | 026.56 | 091 |
| 06.11 | -0.9106 | -31.473 | -0.8418 | 0.6914 | 0.5979 | 0.7119 | 0.0187 | -0.1166 | -0.0044 | 0.1140 | -0.2915 | 026.59 | 092 |
| 06.33 | -0.9527 | -31.533 | -0.8809 | 0.7003 | 0.5990 | 0.7130 | 0.0088 | -0.1022 | -0.0041 | 0.1140 | -0.2879 | 026.59 | 093 |
| 06.54 | -0.9966 | -21.586 | -0.9239 | 0.7085 | 0.5987 | 0.716 | 0.0116 | -0.1012 | -0.0042 | 0.1155 | -0.2825 | 026.56 | 088 |
| 06.78 | -1.0356 | -31.625 | -0.957 | 0.7252 | 0.5981 | 0.7122 | 0.0149 | -0.0934 | -0.0044 | 0.1141 | -0.2744 | 026.62 | 089 |
| 07.00 | -1.0785 | -01.651 | -0.9975 | 0.7252 | 0.5981 | 0.7136 | 0.0106 | -0.1033 | -0.0041 | 0.1155 | -0.2644 | 026.59 | 090 |
| 07.24 | -1.1180 | -31.704 | -1.0337 | 0.7326 | 0.5974 | 0.7166 | 0.0062 | -0.0790 | -0.0042 | 0.1172 | -0.2629 | 026.65 | 097 |
| 07.46 | -1.1697 | -31.746 | -1.0818 | 0.7414 | 0.6006 | 0.7160 | 0.0052 | -0.0588 | -0.0048 | 0.1155 | -0.2534 | 026.59 | 098 |
| 07.71 | -1.1970 | -31.725 | -1.1056 | 0.7558 | 0.6006 | 0.7160 | 0.0013 | -0.0725 | -0.0043 | 0.1153 | -0.2377 | 026.56 | 099 |
| 07.93 | -1.2466 | -31.763 | -1.1519 | 0.7663 | 0.6001 | 0.7154 | -0.0030 | -0.0727 | -0.0041 | 0.1153 | -0.2298 | 026.56 | 100 |
| 08.15 | -1.2807 | -31.753 | -1.1833 | 0.7714 | 0.6001 | 0.7122 | -0.0076 | -0.0369 | -0.0044 | 0.1141 | -0.2152 | 026.62 | 101 |
| 08.43 | -1.3277 | -31.775 | -1.2262 | 0.7868 | 0.5972 | 0.7141 | -0.0048 | -0.0508 | -0.0035 | 0.1169 | -0.1962 | 026.59 | 102 |
| 08.52 | -1.3721 | -31.811 | -1.2669 | 0.7974 | 0.5986 | 0.7157 | -0.0077 | -0.0716 | -0.0023 | 0.1170 | -0.1914 | 026.62 | 103 |
| 08.84 | -1.4125 | -31.008 | -1.3059 | 0.8091 | 0.5992 | 0.7160 | -0.0096 | -0.0818 | -0.0018 | 0.1168 | -0.1888 | 026.56 | 104 |
| 09.01 | -1.4624 | -31.825 | -1.3509 | 0.8186 | 0.5970 | 0.7140 | -0.0173 | -0.0666 | -0.0018 | 0.1170 | -0.1792 | 026.62 | 105 |
| 09.20 | -1.4883 | -31.819 | -1.3737 | 0.8274 | 0.5972 | 0.7157 | -0.0144 | -0.0591 | -0.0015 | 0.1185 | -0.1713 | 026.62 | 106 |
| 09.37 | -1.5354 | -01.839 | -1.4179 | 0.8383 | 0.5964 | 0.7150 | -0.0156 | -0.0298 | -0.0005 | 0.1186 | -0.1638 | 026.65 | 107 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | HSMT TEST 89 | | | | | |
|---|--------|---------|--------------|--------|--------|--------|---------|---------|--------------|--------|----------|--------|-----|--|
| RUN 014 MACH NO 2.010 RN/L 06813357 Q 1467 PSF TO 575 | | | COEFFICIENTS | | | | | | 10/17/62 | | | | | |
| ALPHA | V | PW | L | D | A | AU | V | YH | RH | AB | CP | PO | PNT | |
| 09.53 | 1.5808 | -31.862 | 1.4597 | 0.8525 | 0.5590 | 0.7162 | -0.0163 | -0.0297 | -0.0004 | 0.1172 | -03.578 | 028.45 | 108 | |
| 09.70 | 1.6199 | -31.888 | 1.4955 | 0.6656 | 0.6012 | 0.7183 | -0.0136 | -0.0001 | -0.0021 | 0.1170 | -03.541 | 028.62 | 109 | |
| 09.84 | 1.6458 | -31.882 | 1.5168 | 0.8742 | 0.6018 | 0.7189 | -0.0177 | -0.0029 | -0.0027 | 0.1170 | -03.473 | 028.62 | 110 | |
| 09.95 | 1.6762 | -31.875 | 1.5473 | 0.8809 | 0.6002 | 0.7173 | -0.0147 | -0.0148 | -0.0012 | 0.1170 | -03.398 | 028.62 | 111 | |
| 10.39 | 1.6943 | -31.859 | 1.5631 | 0.8867 | 0.5991 | 0.7173 | -0.0158 | -0.0096 | -0.0023 | 0.1182 | -03.333 | 028.56 | 112 | |
| 10.46 | 1.7290 | -31.814 | 1.5944 | 0.8985 | 0.6001 | 0.7170 | -0.0233 | -0.0268 | -0.0034 | 0.1169 | -03.188 | 022.59 | 113 | |
| 10.46 | 1.7677 | -31.785 | 1.6298 | 0.9092 | 0.5982 | 0.7167 | -0.0276 | -0.0329 | -0.0041 | 0.1185 | -0.03070 | 028.62 | 114 | |
| 10.56 | 1.8137 | -31.756 | 1.6719 | 0.9222 | 0.5969 | 0.7155 | -0.0394 | -0.0741 | -0.0039 | 0.1166 | -02.941 | 028.65 | 115 | |
| 10.84 | 1.8710 | -31.741 | 1.7251 | 0.9391 | 0.5978 | 0.7165 | -0.0303 | -0.0828 | -0.0095 | 0.1188 | -02.826 | 028.68 | 116 | |
| 10.94 | 1.9199 | -31.713 | 1.7711 | 0.9534 | 0.5999 | 0.7186 | -0.0308 | -0.0312 | -0.0043 | 0.1186 | -02.711 | 028.68 | 117 | |
| 11.03 | 1.9453 | -31.703 | 1.7947 | 0.9602 | 0.5989 | 0.7180 | -0.0315 | -0.0453 | -0.0035 | 0.1190 | -02.659 | 028.75 | 118 | |
| 11.34 | 1.9406 | -31.654 | 1.7901 | 0.9550 | 0.5985 | 0.7175 | -0.0282 | -0.0454 | -0.0050 | 0.1190 | -02.589 | 028.75 | 119 | |
| 11.10 | 1.9692 | -31.638 | 1.8165 | 0.9837 | 0.6017 | 0.7204 | -0.0321 | -0.0446 | -0.0061 | 0.1186 | -02.526 | 028.65 | 120 | |
| 20.37 | 0.3563 | -30.157 | 0.0556 | 0.5933 | 0.5933 | 0.7082 | 0.0226 | -0.1136 | -0.0018 | 0.1109 | -06.449 | 028.56 | 121 | |

REFERENCES

| | PNT | CP | PO | PM | AU | Y | YM | RM | AB | CP | PO | PNT |
|-------|---------|----------|---------|--------|--------|--------|---------|---------|--------|---------|---------|--------|
| LPHMA | V | PM | L | D | A | AU | Y | YM | RM | AB | CP | V |
| 0.18 | 0.3646 | -33.206 | 0.0427 | 3.6050 | 0.6059 | 0.7167 | 0.0129 | -0.1161 | 0.1927 | 0.1108 | -13.864 | 0.2852 |
| 1.19 | -1.747 | 31.359 | -1.8231 | 0.9598 | 0.5877 | 0.7116 | 0.0286 | -0.0359 | 0.1239 | -0.0209 | 0.2852 | 0.09 |
| 0.82 | -1.8877 | 31.411 | -1.7433 | 0.9343 | 0.5903 | 0.7128 | 0.0212 | -0.0672 | 0.1924 | -0.1225 | -0.271 | 0.08 |
| 0.38 | -1.4069 | 31.452 | -1.6709 | 0.9360 | 0.5900 | 0.7111 | 0.0306 | -0.0877 | 0.1211 | -0.2442 | 0.2852 | 0.09 |
| 0.94 | -1.5337 | 31.486 | -1.5655 | 0.8752 | 0.5925 | 0.7136 | 0.0224 | -0.3618 | 0.1932 | -0.665 | 0.2852 | 0.56 |
| 0.47 | -1.5955 | 31.507 | -1.4676 | 0.8481 | 0.5937 | 0.7134 | 0.0285 | -0.1106 | 0.1928 | -0.070 | 0.2856 | 0.11 |
| 0.98 | -1.5649 | 31.530 | -1.3926 | 0.8196 | 0.5918 | 0.7115 | 0.0307 | -0.1101 | 0.1929 | -0.3049 | 0.2856 | 0.12 |
| 0.55 | -1.410 | 31.473 | -1.2992 | 0.7947 | 0.5930 | 0.7128 | 0.0229 | -0.1236 | 0.1913 | -0.1198 | 0.2856 | 0.13 |
| 0.12 | -1.3099 | 31.468 | -1.2127 | 0.7745 | 0.5956 | 0.7139 | 0.0223 | -0.1624 | 0.184 | -0.3034 | 0.2856 | 0.14 |
| 0.72 | -1.2330 | 31.495 | -1.1194 | 0.7536 | 0.5975 | 0.7160 | 0.0276 | -0.1189 | 0.1933 | -0.1185 | 0.2856 | 0.12 |
| 1.73 | -1.188 | 31.336 | -1.0346 | 0.7350 | 0.5990 | 0.7160 | 0.0333 | -0.1156 | 0.1962 | -0.1170 | 0.2856 | 0.16 |
| 0.80 | -1.3159 | 31.308 | -0.9575 | 0.7194 | 0.6011 | 0.7190 | 0.0431 | -0.1500 | 0.1962 | -0.1197 | 0.2856 | 0.17 |
| 0.67 | -0.9577 | 31.220 | -0.8852 | 0.7047 | 0.6023 | 0.7110 | 0.0387 | -0.1644 | 0.1945 | -0.1148 | 0.2856 | 0.18 |
| 0.56 | -0.8932 | 31.215 | -0.8259 | 0.6916 | 0.6021 | 0.7167 | 0.0311 | -0.1767 | 0.1941 | -0.1146 | 0.2856 | 0.19 |
| 0.50 | -0.8228 | 31.040 | -0.7613 | 0.6780 | 0.6019 | 0.7137 | 0.0266 | -0.174 | 0.1930 | -0.1118 | 0.2856 | 0.20 |
| 0.56 | -0.7392 | 30.883 | -0.6102 | 0.6624 | 0.5996 | 0.7120 | 0.0186 | -0.1569 | 0.1924 | -0.1124 | 0.2856 | 0.21 |
| 1.46 | -0.5961 | 22.772 | -0.5462 | 0.6421 | 0.6038 | 0.7122 | 0.0212 | -0.1625 | 0.1930 | -0.1114 | 0.2856 | 0.22 |
| 0.71 | 0.5317 | 00.668 | -0.4335 | 0.6335 | 0.6003 | 0.7123 | 0.0204 | -0.1613 | 0.1933 | -0.1115 | 0.2856 | 0.23 |
| 0.27 | -0.4665 | 00.4313 | -0.3433 | 0.6283 | 0.6027 | 0.7114 | 0.0360 | -0.1867 | 0.1945 | -0.1088 | 0.2856 | 0.24 |
| 0.82 | -0.4033 | 00.450 | -0.3731 | 0.6229 | 0.6038 | 0.7120 | 0.0353 | -0.1989 | 0.1943 | -0.1082 | 0.2856 | 0.25 |
| 0.42 | -0.3388 | 00.355 | -0.3133 | 0.6157 | 0.6021 | 0.7113 | 0.0348 | -0.192 | 0.1937 | -0.1093 | 0.2856 | 0.27 |
| 1.96 | -0.2664 | 00.276 | -0.2455 | 0.6109 | 0.6021 | 0.7111 | 0.0484 | -0.2024 | 0.1935 | -0.1091 | 0.2856 | 0.28 |
| 1.56 | -0.2122 | 00.189 | -0.1957 | 0.6064 | 0.6008 | 0.7099 | 0.0448 | -0.1961 | 0.1927 | -0.1091 | 0.2856 | 0.29 |
| 1.10 | -0.1538 | 00.191 | -0.1422 | 0.6031 | 0.6003 | 0.7093 | 0.0412 | -0.1867 | 0.1927 | -0.1092 | 0.2856 | 0.30 |
| 0.67 | -0.1030 | 00.101 | -0.0960 | 0.6014 | 0.6030 | 0.7112 | 0.0274 | -0.1662 | 0.1905 | -0.1109 | 0.2856 | 0.31 |
| 0.26 | -0.0443 | -0.0488 | -0.0416 | 0.6028 | 0.6026 | 0.7135 | 0.0343 | -0.1643 | 0.1917 | -0.1109 | 0.2856 | 0.32 |
| 0.55 | -0.0176 | -0.0168 | -0.0157 | 0.6027 | 0.6026 | 0.7134 | 0.0339 | -0.1489 | 0.1919 | -0.1092 | 0.2856 | 0.33 |
| 0.60 | -0.0287 | -0.0254 | 0.0764 | 0.6038 | 0.6030 | 0.7122 | 0.0293 | -0.1263 | 0.1931 | -0.1092 | 0.2856 | 0.34 |
| 1.34 | -0.4834 | -0.358 | 0.1294 | 0.6049 | 0.6025 | 0.7118 | 0.0284 | -0.1246 | 0.1928 | -0.1093 | 0.2856 | 0.35 |
| 1.49 | -0.1979 | -0.0437 | 0.1822 | 0.6063 | 0.6014 | 0.7122 | 0.0171 | -0.1106 | 0.1939 | -0.1108 | 0.2856 | 0.36 |
| 1.90 | -0.2476 | -0.524 | 0.2275 | 0.6090 | 0.6012 | 0.7138 | 0.0060 | -0.1665 | 0.1953 | -0.1096 | 0.2856 | 0.37 |
| 0.30 | -0.3030 | -0.612 | 0.2803 | 0.6135 | 0.6017 | 0.7059 | 0.0015 | -0.0809 | 0.1959 | -0.1082 | 0.2856 | 0.38 |
| 2.32 | -0.6867 | -0.179 | 0.6305 | 0.6198 | 0.6050 | 0.7164 | 0.0164 | -0.0984 | 0.1968 | -0.1139 | 0.2856 | 0.44 |
| 0.53 | -0.4203 | -0.795 | 0.3858 | 0.6260 | 0.6034 | 0.7114 | 0.0169 | -0.0824 | 0.1973 | -0.1076 | 0.2856 | 0.45 |
| 0.61 | -0.4883 | -0.887 | 0.4509 | 0.6117 | 0.6021 | 0.7132 | 0.0091 | -0.0897 | 0.1971 | -0.1111 | 0.2856 | 0.46 |
| 0.46 | -0.5551 | -0.20983 | 0.5109 | 0.6540 | 0.6063 | 0.7111 | 0.0116 | -0.0953 | 0.1972 | -0.1108 | 0.2856 | 0.47 |
| 0.45 | -0.6180 | -0.181 | 0.56864 | 0.6521 | 0.6054 | 0.7113 | 0.0107 | -0.1085 | 0.1973 | -0.1120 | 0.2856 | 0.48 |
| 0.92 | -0.6687 | -0.179 | 0.6305 | 0.6198 | 0.6052 | 0.7164 | 0.0164 | -0.0984 | 0.1968 | -0.1139 | 0.2856 | 0.49 |
| 0.55 | -0.7580 | -0.21288 | 0.6980 | 0.6733 | 0.6050 | 0.7189 | 0.0120 | -0.1122 | 0.1982 | -0.1161 | 0.2856 | 0.50 |
| 0.89 | -0.8297 | -0.373 | 0.7638 | 0.6877 | 0.6036 | 0.7206 | 0.0075 | -0.1116 | 0.1984 | -0.1140 | 0.2856 | 0.46 |
| 0.27 | 0.9191 | -0.152 | 0.7208 | 0.6746 | 0.6079 | 0.7218 | 0.0032 | -0.1116 | 0.1992 | -0.1139 | 0.2856 | 0.47 |
| 0.75 | 1.0003 | -0.1571 | 0.9220 | 0.7208 | 0.6069 | 0.7221 | 0.0059 | -0.1331 | 0.1990 | -0.1152 | 0.2856 | 0.48 |
| 0.71 | 1.0583 | -0.1635 | 0.9990 | 0.7352 | 0.6044 | 0.7212 | 0.0117 | -0.1245 | 0.1995 | -0.1168 | 0.2856 | 0.49 |
| 0.72 | 1.1774 | -0.1729 | 0.80664 | 0.5783 | 0.6074 | 0.7229 | 0.0104 | -0.1025 | 0.2012 | -0.1225 | 0.2856 | 0.50 |
| 0.98 | -0.2647 | -0.1777 | 1.1666 | 0.7790 | 0.6071 | 0.7220 | 0.0095 | -0.1267 | 0.2007 | -0.1169 | 0.2856 | 0.51 |
| 0.83 | -0.2403 | -0.1843 | 1.2568 | 0.8021 | 0.6062 | 0.7224 | 0.0152 | -0.1049 | 0.2038 | -0.1182 | 0.2856 | 0.52 |
| 0.30 | 1.4439 | -0.1849 | 1.3318 | 0.8259 | 0.6076 | 0.7258 | 0.0037 | -0.1409 | 0.2004 | -0.1181 | 0.2856 | 0.53 |
| 0.93 | -0.2439 | -0.181 | 1.4100 | 0.8473 | 0.6067 | 0.7236 | 0.0055 | -0.1333 | 0.2016 | -0.1169 | 0.2856 | 0.54 |
| 0.99 | -0.2529 | -0.1662 | 1.4800 | 0.8692 | 0.6083 | 0.7272 | 0.0057 | -0.1357 | 0.2035 | -0.1225 | 0.2856 | 0.55 |
| 0.99 | -0.6659 | -0.1863 | 1.5375 | 0.8692 | 0.6087 | 0.7272 | -0.0105 | -0.1255 | 0.2055 | -0.1262 | 0.2856 | 0.56 |

| CVC HIGH SPEED MIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSMT TEST 89 | | | |
|---|--------------|----------------|--------|--------|--------|--------|---------|----------------|----------------|--------------|---------|--------|-----|
| RUN 015 MAC1 NO 2.010 RN/L 07040708 Q 1463 PSF 10 561 | | | | | | | | | | 10/17/62 | | | |
| ALPHA | COEFFICIENTS | | | | | | | | | P0 | PNT | | |
| | N | P _M | L | D | A | AU | Y | Y _M | R _M | | | | |
| 10.23 | 1.7272 | -31.864 | 1.5916 | 0.9063 | 0.6093 | 0.7275 | -0.0079 | -0.1372 | 0.2070 | 0.1182 | -0.3279 | 028.56 | 057 |
| 10.66 | 1.8429 | -01.818 | 1.6982 | 0.9407 | 0.6102 | 0.7282 | -0.0138 | -0.1249 | 0.2053 | 0.1179 | -0.2997 | 022.49 | 058 |
| 10.93 | 1.9151 | -31.774 | 1.7645 | 0.9631 | 0.6110 | 0.7291 | -0.0168 | -0.1048 | 0.2063 | 0.1181 | -0.2814 | 028.52 | 059 |
| 11.03 | 1.9694 | -01.763 | 1.8159 | 0.9774 | 0.6119 | 0.7301 | -0.0233 | -0.0986 | 0.2051 | 0.1182 | -0.2715 | 028.56 | 060 |
| 11.17 | 1.9857 | -31.756 | 1.8297 | 0.9839 | 0.6108 | 0.7292 | -0.0201 | -0.1126 | 0.2033 | 0.1184 | -0.2683 | 028.59 | 061 |
| 11.18 | 2.0079 | -01.754 | 1.8509 | 0.9908 | 0.6131 | 0.7314 | -0.0170 | -0.1199 | 0.2039 | 0.1186 | -0.2609 | 028.59 | 062 |
| 00.14 | 0.0747 | -00.197 | 0.0732 | 0.6048 | 0.6046 | 0.7151 | 0.0231 | -0.1360 | 0.1922 | 0.1112 | -0.0804 | 028.62 | 063 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | | | HSWT TEST 89 | | | | | | |
|--|---------|----------|----------|--------|---------|--------|---------|---------|--------|--------|---------|--------------|-----|-----|--|--|--|--|
| RUN 016 MACH NO 2.990 RNL 08260977 Q 1429 PSF TO 581 | | | 10/17/62 | | | | | | | | | | | | | | | |
| CGEFFICIENTS | | | | | | | | | | | | | | | | | | |
| ALPHA | V | PM | L | D | A | AU | Y | YM | RW | AB | CP | PO | PO | PNT | | | | |
| 30.16 | -0.3021 | -0.0095 | -0.0033 | 0.4506 | 0.4506 | 0.5269 | -0.0069 | -0.0108 | 0.1568 | 0.2763 | 39.707 | 057.46 | 006 | | | | | |
| -11.93 | -2.2827 | -0.00913 | -2.144 | 0.9074 | 0.4452 | 0.5119 | 0.0894 | -0.0004 | 0.1594 | 0.3867 | 01.215 | 057.27 | 007 | | | | | |
| -11.90 | -2.2337 | -0.893 | -2.1331 | 0.9043 | 0.4450 | 0.5118 | 0.0824 | -0.1217 | 0.1585 | 0.2867 | 01.193 | 057.40 | 008 | | | | | |
| -11.67 | -2.2271 | -0.858 | -2.0911 | 0.8858 | 0.4444 | 0.5111 | 0.0852 | -0.1366 | 0.1562 | 0.2867 | 01.170 | 057.33 | 009 | | | | | |
| -11.28 | -2.1367 | -0.0803 | -2.0088 | 0.5521 | 0.4427 | 0.5194 | 0.0755 | -0.0869 | 0.1579 | 0.3867 | 01.142 | 057.33 | 010 | | | | | |
| -10.83 | -2.0230 | -0.735 | -1.9039 | 0.8145 | 0.4424 | 0.5276 | 0.0696 | -0.0665 | 0.1571 | 0.3852 | 01.104 | 057.33 | 011 | | | | | |
| -10.37 | -1.893 | -0.675 | -1.7838 | 0.7755 | 0.4417 | 0.5269 | 0.0665 | -0.0829 | 0.1561 | 0.3852 | 01.079 | 057.33 | 012 | | | | | |
| -39.88 | -1.554 | -0.573 | -1.6529 | 0.3340 | 0.4394 | 0.5261 | 0.0492 | -0.0001 | 0.1570 | 0.3868 | 00.992 | 057.46 | 013 | | | | | |
| -09.40 | -1.6358 | -0.496 | -1.5419 | 0.7015 | 0.4402 | 0.5254 | 0.0462 | -0.095 | 0.1575 | 0.3852 | 00.921 | 057.40 | 014 | | | | | |
| -08.95 | -1.5130 | -0.409 | -1.4262 | 0.6693 | 0.4393 | 0.5146 | 0.0399 | -0.0623 | 0.1592 | 0.3852 | 00.821 | 057.33 | 015 | | | | | |
| -08.47 | -1.3979 | -0.332 | -1.3116 | 0.6428 | 0.4418 | 0.5270 | 0.0303 | -0.0633 | 0.1593 | 0.3852 | 00.722 | 057.40 | 016 | | | | | |
| -37.99 | -1.2836 | -0.238 | -1.2005 | 0.6154 | 0.4417 | 0.5269 | 0.0276 | -0.0449 | 0.1600 | 0.3852 | 00.564 | 057.27 | 017 | | | | | |
| -07.56 | -1.1782 | -0.147 | -1.1096 | 0.5946 | 0.4435 | 0.5272 | 0.0265 | -0.0525 | 0.1592 | 0.379 | 057.40 | 018 | | | | | | |
| -37.11 | -1.1039 | -0.083 | -1.0202 | 0.5779 | 0.4473 | 0.5195 | 0.0252 | -0.0125 | 0.1599 | 0.3838 | 00.379 | 057.40 | 019 | | | | | |
| -36.65 | -0.9914 | -0.328 | -0.9332 | 0.5570 | 0.4451 | 0.5273 | 0.0139 | -0.0353 | 0.1583 | 0.3822 | 00.087 | 057.33 | 020 | | | | | |
| -36.20 | -0.8967 | -0.20 | -0.8435 | 0.5377 | 0.4434 | 0.5257 | 0.0166 | -0.0005 | 0.1582 | 0.3823 | -00.059 | 057.46 | 021 | | | | | |
| -35.76 | -0.8128 | -0.019 | -0.7638 | 0.5265 | 0.4471 | 0.5264 | 0.0154 | -0.0211 | 0.1575 | 0.3778 | -00.071 | 057.40 | 022 | | | | | |
| -05.32 | -0.7494 | -0.024 | -0.7049 | 0.5138 | 0.4462 | 0.5256 | 0.0188 | -0.0653 | 0.1557 | 0.3793 | -00.096 | 057.46 | 023 | | | | | |
| -04.81 | -0.6688 | -0.025 | -0.6251 | 0.5002 | 0.4461 | 0.5217 | 0.0110 | -0.0744 | 0.1550 | 0.3793 | -00.115 | 057.40 | 024 | | | | | |
| -04.34 | -0.6105 | -0.028 | -0.5750 | 0.4993 | 0.4454 | 0.5217 | 0.0139 | -0.0763 | 0.1552 | 0.3793 | -00.161 | 057.40 | 025 | | | | | |
| -03.90 | -0.5638 | -0.009 | -0.5122 | 0.4457 | 0.4451 | 0.5235 | 0.0061 | -0.0608 | 0.1550 | 0.3778 | -00.049 | 057.46 | 026 | | | | | |
| -03.44 | -0.4764 | -0.019 | -0.4469 | 0.4475 | 0.4438 | 0.5116 | 0.0088 | -0.0527 | 0.1534 | 0.3778 | 00.120 | 057.40 | 027 | | | | | |
| -03.31 | -0.4114 | -0.031 | -0.3875 | 0.4658 | 0.4448 | 0.5111 | 0.0084 | -0.0678 | 0.1532 | 0.3763 | 00.228 | 057.40 | 028 | | | | | |
| -02.56 | -0.3616 | -0.037 | -0.3412 | 0.4642 | 0.4485 | 0.5233 | 0.0041 | -0.0463 | 0.1527 | 0.3748 | 00.309 | 057.40 | 029 | | | | | |
| -02.11 | -0.2932 | -0.058 | -0.2826 | 0.4573 | 0.4466 | 0.5114 | 0.0002 | -0.0694 | 0.1547 | 0.3768 | 00.586 | 057.40 | 030 | | | | | |
| -01.71 | -0.2500 | -0.047 | -0.2365 | 0.4569 | 0.4497 | 0.5244 | 0.0067 | -0.0611 | 0.1550 | 0.3747 | 00.569 | 057.40 | 031 | | | | | |
| -01.26 | -0.1956 | -0.052 | -0.1857 | 0.5116 | 0.4474 | 0.5337 | 0.0060 | -0.0336 | 0.1552 | 0.3763 | 00.808 | 057.33 | 032 | | | | | |
| -00.84 | -0.1653 | -0.058 | -0.1387 | 0.4494 | 0.4473 | 0.5236 | 0.0019 | -0.0668 | 0.1554 | 0.3763 | 01.214 | 057.33 | 033 | | | | | |
| -00.37 | -0.0914 | -0.063 | -0.0884 | 0.4499 | 0.4494 | 0.5256 | -0.0023 | -0.0328 | 0.1572 | 0.3762 | 01.205 | 057.27 | 034 | | | | | |
| 20.05 | -0.0312 | -0.0368 | -0.037 | 0.4484 | 0.4485 | 0.5263 | 0.0006 | -0.0247 | 0.1565 | 0.3778 | 05.592 | 057.40 | 035 | | | | | |
| 00.50 | -0.0049 | -0.0359 | -0.0010 | 0.4474 | 0.4474 | 0.5337 | -0.0069 | -0.0188 | 0.1574 | 0.3763 | -36.355 | 057.40 | 036 | | | | | |
| 30.93 | -0.3655 | -0.073 | -0.0593 | 0.4511 | 0.4511 | 0.5264 | -0.0072 | -0.0111 | 0.1550 | 0.3763 | -0.205 | 057.33 | 037 | | | | | |
| 01.38 | -0.1126 | -0.0085 | -0.1018 | 0.4539 | 0.4513 | 0.5262 | -0.0122 | -0.0116 | 0.1555 | 0.3763 | -0.290 | 057.33 | 038 | | | | | |
| 01.81 | -0.1634 | -0.073 | -0.1481 | 0.4547 | 0.4498 | 0.5246 | -0.113 | -0.0044 | 0.1552 | 0.3763 | -01.374 | 057.40 | 039 | | | | | |
| 02.26 | -0.2259 | -0.077 | -0.2021 | 0.4604 | 0.4521 | 0.5269 | -0.0217 | -0.0166 | 0.1553 | 0.3768 | -01.873 | 057.33 | 040 | | | | | |
| 02.71 | -0.2781 | -0.091 | -0.2524 | 0.4648 | 0.4524 | 0.5272 | -0.0189 | -0.0126 | 0.1553 | 0.3768 | -01.004 | 057.40 | 041 | | | | | |
| 03.15 | -0.3238 | -0.096 | -0.2985 | 0.4693 | 0.4522 | 0.5270 | -0.0201 | -0.0059 | 0.1539 | 0.3748 | -00.900 | 057.40 | 042 | | | | | |
| 03.60 | -0.3891 | -0.116 | -0.3569 | 0.4775 | 0.4563 | 0.5274 | -0.0215 | -0.0039 | 0.1553 | 0.3733 | -00.915 | 057.33 | 043 | | | | | |
| 04.02 | -0.4406 | -0.130 | -0.4076 | 0.4860 | 0.4595 | 0.5295 | -0.0222 | -0.0033 | 0.1554 | 0.3733 | -00.894 | 057.27 | 044 | | | | | |
| 04.49 | -0.5036 | -0.165 | -0.4724 | 0.4937 | 0.4552 | 0.5300 | -0.0267 | -0.0134 | 0.1574 | 0.3748 | -00.983 | 057.40 | 045 | | | | | |
| 04.91 | -0.5733 | -0.165 | -0.5371 | 0.5044 | 0.4566 | 0.5315 | -0.0280 | -0.0212 | 0.1585 | 0.3749 | -00.873 | 057.33 | 046 | | | | | |
| 05.35 | -0.6635 | -0.173 | -0.6175 | 0.5218 | 0.4619 | 0.5367 | -0.0298 | -0.0068 | 0.1604 | 0.3768 | -00.791 | 057.40 | 047 | | | | | |
| 05.85 | -0.7327 | -0.174 | -0.6818 | 0.5341 | 0.4619 | 0.5367 | -0.0241 | -0.0135 | 0.1621 | 0.3748 | -00.722 | 057.40 | 048 | | | | | |
| 06.29 | -0.8010 | -0.116 | -0.7515 | 0.5483 | 0.4627 | 0.5361 | -0.0235 | -0.0215 | 0.1647 | 0.3763 | -00.631 | 057.33 | 049 | | | | | |
| 06.76 | -0.8919 | -0.153 | -0.8309 | 0.5668 | 0.4648 | 0.5391 | -0.0235 | -0.0514 | 0.1655 | 0.3763 | -00.512 | 057.33 | 050 | | | | | |
| 07.24 | -0.9884 | -0.104 | -0.9201 | 0.5844 | 0.4637 | 0.5415 | -0.0294 | -0.0306 | 0.1664 | 0.3778 | -00.320 | 057.40 | 051 | | | | | |
| 07.70 | -1.0862 | -0.049 | -1.0162 | 0.6057 | 0.4663 | 0.5421 | -0.0348 | -0.0623 | 0.1688 | 0.3778 | -00.137 | 057.40 | 052 | | | | | |
| 08.16 | -1.1919 | -0.324 | -1.1136 | 0.6312 | 0.4667 | 0.5445 | -0.0365 | -0.0510 | 0.1704 | 0.3778 | -00.062 | 057.27 | 053 | | | | | |
| 09.12 | -1.4144 | 0.209 | 1.3226 | 0.6853 | 0.46671 | 0.5479 | -0.0490 | -0.0380 | 0.1709 | 0.3808 | 00.450 | 057.40 | 055 | | | | | |
| 09.55 | 1.5223 | 0.293 | 1.4264 | 0.7152 | 0.4686 | 0.5469 | -0.0479 | -0.0319 | 0.1715 | 0.3793 | 00.583 | 057.40 | 056 | | | | | |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSWT TEST 89 | | | | |
|---|--------|---------|--------|--------|----------|--------|---------|---------|--------|--------------|--------|--------|------|--|
| RUN | 016 | MACH NO | 2.990 | RNL | 08260977 | Q | 1429 | PSF | TO | 581 | | | | |
| COEFFICIENTS | | | | | | | | | | | | | | |
| ALPHA | N | PW | L | D | A | AU | Y | YM | RM | AB | CP | P0 | PNT | |
| 29.85 | 1.6291 | 20.341 | 1.5246 | 0.7426 | 0.4709 | 0.5502 | -0.0440 | -0.0534 | 0.1715 | 0.1793 | 0.635 | 0.5740 | 0.57 | |
| 13.14 | 1.7116 | 20.409 | 1.6019 | 0.7654 | 0.4714 | 0.5522 | -0.0445 | -0.0842 | 0.1732 | 0.2808 | 0.726 | 0.5746 | 0.58 | |
| 12.46 | 1.7976 | 20.462 | 1.6817 | 0.7920 | 0.4725 | 0.5528 | -0.0456 | -0.0628 | 0.1739 | 0.3793 | 0.781 | 0.5740 | 0.59 | |
| 13.79 | 1.9085 | 20.523 | 1.7859 | 0.8235 | 0.4746 | 0.5539 | -0.0516 | -0.0284 | 0.1746 | 0.3793 | 0.862 | 0.5740 | 0.60 | |
| 11.21 | 2.0309 | 20.615 | 1.8991 | 0.8642 | 0.4785 | 0.5578 | -0.0587 | -0.0227 | 0.1769 | 0.3793 | 0.920 | 0.5740 | 0.61 | |
| 11.33 | 2.0960 | 20.666 | 1.9602 | 0.8832 | 0.4785 | 0.5578 | -0.0595 | -0.0158 | 0.1774 | 0.3793 | 0.937 | 0.5740 | 0.62 | |
| 11.61 | 2.1256 | 20.673 | 1.9897 | 0.8939 | 0.4798 | 0.5591 | -0.0527 | -0.0149 | 0.1789 | 0.3793 | 0.958 | 0.5740 | 0.63 | |
| 11.69 | 2.1458 | 20.649 | 2.0074 | 0.8959 | 0.4790 | 0.5583 | -0.0618 | 0.0208 | 0.1767 | 0.3793 | 0.919 | 0.5740 | 0.64 | |
| 20.16 | 6.0589 | -20.347 | 0.0577 | 0.4549 | 0.4547 | 0.5310 | -0.0043 | -0.0106 | 0.1555 | 0.3763 | -0.439 | 0.5733 | 0.65 | |

LVC HIGH SPEED WIND TUNNEL TEST NUMBER 89
 RUN 017 MACH NO 2.990 RNL 08177071 Q 1427 PSF TO 584

HSWT TEST 89

| ALPHA | Y | PM | L | D | A | AU | Y | YM | RM | COEFFICIENTS | | | | PNT |
|--------|---------|----------|---------|---------|---------|---------|---------|---------|---------|--------------|---------|--------|-----|-----|
| | | | | | | | | | | B | CP | P0 | PNT | |
| 00.15 | C-0362 | -00.053 | 0.0350 | C-04356 | 0.43555 | C-51212 | -0.0178 | -0.0251 | 0.0011 | -0.0766 | -04.410 | 057.26 | 006 | |
| -11.05 | -2.2126 | -20.953 | -2.08C1 | 0.8684 | 0.4303 | 0.4173 | 0.0867 | -0.0418 | -0.0081 | 0.3870 | 01.316 | 057.20 | 007 | |
| -11.25 | -2.1289 | -20.887 | -2.0343 | 0.4281 | 0.4136 | 0.4217 | 0.0687 | -0.0300 | -0.0086 | 0.3856 | 01.286 | 057.33 | 008 | |
| -10.77 | -1.9945 | -20.807 | -1.8197 | 0.7910 | 1.4257 | 0.5127 | 0.0658 | -0.0471 | -0.0084 | 0.3870 | 01.229 | 057.26 | 009 | |
| -10.36 | -1.0575 | -20.715 | -1.7514 | 0.7496 | 2.4232 | 0.5102 | 0.0595 | -0.0192 | -0.0079 | 0.3871 | 01.171 | 057.39 | 010 | |
| -09.93 | -1.7432 | -20.623 | -1.6450 | 0.4249 | 0.5104 | 0.0529 | -0.0516 | -0.0073 | 0.3555 | 01.086 | 057.20 | 011 | | |
| -09.42 | -1.6227 | -20.5242 | -1.2120 | 0.6803 | 0.4244 | 0.0509 | 0.0520 | -0.0080 | -0.0075 | 0.3856 | 01.024 | 057.33 | 012 | |
| -08.39 | -1.4841 | -20.445 | -1.430 | 0.6523 | 0.4271 | 0.5127 | 0.0361 | -0.030 | -0.0060 | 0.3855 | 00.912 | 057.26 | 013 | |
| -09.46 | -1.3746 | -20.161 | -1.293 | 0.6221 | 0.4251 | 0.5136 | 0.0333 | -0.0279 | -0.0048 | 0.3855 | 00.749 | 057.26 | 014 | |
| -07.37 | -1.2791 | -20.282 | -1.2014 | 0.6014 | 0.4281 | 0.5121 | 0.0318 | -0.0649 | -0.0072 | 0.3864 | 00.666 | 057.13 | 015 | |
| -07.51 | -1.1597 | -20.203 | -1.0339 | 0.5748 | 0.4269 | 0.5110 | 0.0339 | -0.0610 | -0.0052 | 0.3841 | 00.531 | 057.33 | 016 | |
| -07.36 | -1.3741 | -20.134 | -1.0134 | 0.5522 | 0.4275 | 0.5115 | 0.0224 | -0.0550 | -0.0059 | 0.3840 | 00.434 | 057.20 | 017 | |
| -06.55 | -0.9729 | -20.067 | -0.9171 | 0.5375 | 0.4285 | 0.5125 | 0.0213 | -0.0558 | -0.0041 | 0.3840 | 00.210 | 057.26 | 018 | |
| -06.18 | -0.8877 | -20.0343 | -0.8863 | 0.5227 | 0.4296 | 0.5136 | 0.0134 | -0.0574 | -0.0037 | 0.3840 | 00.138 | 057.26 | 019 | |
| -05.71 | -0.8133 | -20.032 | -0.7327 | 0.4988 | 0.4332 | 0.5122 | 0.0089 | -0.0511 | -0.0025 | 0.3811 | -00.006 | 057.33 | 020 | |
| -05.26 | -0.7355 | -20.0207 | -0.6327 | 0.4988 | 0.4332 | 0.5128 | 0.0118 | -0.0654 | -0.0024 | 0.3796 | 00.030 | 057.33 | 021 | |
| -04.78 | -0.6659 | -20.003 | -0.6214 | 0.4879 | 0.4339 | 0.5120 | 0.0142 | -0.0351 | -0.0013 | 0.3781 | 00.001 | 057.33 | 022 | |
| -04.31 | -0.6010 | -20.0014 | -0.5666 | 0.4776 | 0.4336 | 0.5117 | 0.0065 | -0.0364 | -0.0009 | 0.3780 | 00.058 | 057.20 | 023 | |
| -03.85 | -0.5337 | -20.0014 | -0.5236 | 0.46662 | 0.4313 | 0.5094 | 0.0021 | -0.0147 | -0.0007 | 0.3781 | 00.079 | 057.33 | 024 | |
| -03.42 | -0.4722 | -20.0035 | -0.4456 | 0.4651 | 0.4327 | 0.5092 | 0.0014 | -0.016 | -0.0001 | 0.3765 | 00.223 | 057.20 | 025 | |
| -02.99 | -0.4051 | -20.0055 | -0.3820 | 0.4545 | 0.4324 | 0.5112 | 0.0091 | -0.0293 | -0.0009 | 0.3751 | 00.039 | 057.26 | 026 | |
| -02.56 | -0.3586 | -20.0062 | -0.3391 | 0.4486 | 0.4331 | 0.5082 | 0.0002 | -0.0363 | 0.0004 | 0.3751 | 00.522 | 057.26 | 027 | |
| -02.11 | -0.3058 | -20.0058 | -0.2948 | 0.4416 | 0.4308 | 0.5074 | -0.0009 | -0.0355 | -0.0012 | 0.3766 | 00.582 | 057.33 | 028 | |
| -01.68 | -0.2460 | -20.0079 | -0.2311 | 0.4410 | 0.4340 | 0.5090 | -0.0094 | -0.0019 | 0.0001 | 0.3751 | -15.383 | 057.33 | 029 | |
| -01.24 | -0.1935 | -20.0077 | -0.1862 | 0.4359 | 0.4319 | 0.5085 | -0.0066 | -0.0264 | 0.0002 | 0.3766 | 01.208 | 057.33 | 030 | |
| -00.81 | -0.1365 | -20.0073 | -0.1304 | 0.4344 | 0.4325 | 0.5091 | -0.0079 | -0.0106 | 0.0001 | 0.3766 | 01.622 | 057.26 | 031 | |
| -00.36 | -0.3865 | -20.0079 | -0.0339 | 0.4335 | 0.4345 | 0.5091 | -0.0053 | -0.0053 | 0.0006 | 0.3751 | 02.787 | 057.33 | 032 | |
| -00.10 | -0.2611 | -20.0069 | -0.0419 | 0.4335 | 0.5010 | 0.2100 | -0.0161 | -0.0002 | 0.0002 | 0.3765 | 05.126 | 057.13 | 033 | |
| 00.55 | -0.0130 | -20.0066 | -0.0089 | 0.4329 | 0.4328 | 0.5079 | -0.0069 | -0.0237 | -0.0018 | 0.3751 | -00.937 | 057.33 | 034 | |
| 01.00 | -0.0263 | -20.0072 | -0.0558 | 0.4337 | 0.4348 | 0.5087 | -0.0078 | -0.0167 | -0.0004 | 0.3750 | -03.462 | 057.20 | 035 | |
| 21.43 | 0.1161 | -20.0087 | -0.1032 | 0.4360 | 0.4333 | 0.5063 | -0.0122 | -0.0180 | 0.0011 | 0.3750 | -02.318 | 057.20 | 036 | |
| 01.86 | 0.1645 | -20.0085 | -0.1533 | 0.4411 | 0.4360 | 0.5110 | -0.0096 | -0.0331 | -0.0013 | 0.3750 | -01.666 | 057.20 | 037 | |
| 02.31 | 0.2262 | -20.0088 | -0.283 | 0.4457 | 0.4457 | 0.5105 | -0.0180 | -0.0128 | 0.0022 | 0.3751 | -01.184 | 057.26 | 038 | |
| 02.76 | -0.2764 | -20.103 | -0.252 | 0.4471 | 0.4363 | 0.509 | -0.0153 | -0.0201 | 0.0019 | 0.3751 | -01.130 | 057.33 | 039 | |
| 03.21 | 0.3422 | -20.106 | -0.3173 | 0.4528 | 0.4343 | 0.5095 | -0.0237 | -0.0146 | 0.0019 | 0.3751 | -00.789 | 057.33 | 040 | |
| 03.63 | 0.4005 | -20.119 | -0.3720 | 0.4634 | 0.4390 | 0.5126 | -0.0246 | -0.0303 | 0.0027 | 0.3750 | -00.900 | 057.33 | 041 | |
| 04.08 | 0.4664 | -20.138 | -0.4361 | 0.4700 | 0.4380 | 0.5131 | -0.0225 | -0.0152 | 0.0020 | 0.3751 | -00.902 | 057.33 | 042 | |
| 04.53 | 0.5294 | -20.159 | -0.4930 | 0.4804 | 0.4399 | 0.5150 | -0.0305 | -0.0321 | 0.0033 | 0.3751 | -00.915 | 057.26 | 043 | |
| 05.20 | 0.6059 | -20.168 | -0.5653 | 0.4915 | 0.4404 | 0.5155 | -0.0323 | -0.020 | 0.0032 | 0.3751 | -00.841 | 057.33 | 044 | |
| 05.43 | -0.6641 | -20.173 | -0.6106 | 0.5027 | 0.4418 | 0.5169 | -0.0264 | -0.0246 | 0.0023 | 0.3751 | -00.789 | 057.33 | 045 | |
| 05.90 | 0.4420 | -20.164 | -0.6933 | 0.5186 | 0.4447 | 0.5197 | -0.0314 | -0.0114 | 0.0038 | 0.3751 | -00.673 | 057.26 | 046 | |
| 06.35 | 0.8222 | -20.147 | -0.7681 | 0.5312 | 0.4430 | 0.5196 | -0.0326 | -0.0267 | 0.0037 | 0.3750 | -00.545 | 057.33 | 047 | |
| 06.83 | 0.9146 | -20.128 | -0.8552 | 0.5510 | 0.4454 | 0.5205 | -0.0272 | -0.0333 | 0.0036 | 0.3751 | -00.425 | 057.33 | 048 | |
| 07.31 | 1.0014 | -20.075 | -0.9364 | 0.5710 | 0.4472 | 0.5239 | -0.0360 | -0.0207 | 0.0049 | 0.3750 | -00.228 | 057.39 | 049 | |
| 07.79 | 1.1010 | -20.023 | 1.005 | 0.5901 | 0.4500 | 0.5231 | -0.0272 | -0.0418 | 0.0032 | 0.3751 | -00.055 | 057.39 | 050 | |
| 08.25 | 1.2038 | 0.062 | 1.1289 | 0.6174 | 0.4493 | 0.5259 | -0.0294 | -0.0430 | 0.0032 | 0.3751 | -00.156 | 057.39 | 051 | |
| 08.76 | 1.3076 | 0.135 | 1.2243 | 0.6417 | 0.4482 | 0.5264 | -0.0383 | -0.0681 | 0.0059 | 0.3751 | 00.313 | 057.39 | 052 | |
| 09.20 | 1.4332 | 0.239 | 1.3429 | 0.6728 | 0.4493 | 0.5276 | -0.0366 | -0.0229 | 0.0044 | 0.3751 | 00.507 | 057.39 | 053 | |
| 09.59 | 1.5399 | 0.339 | 1.4431 | 0.7020 | 0.4518 | 0.5299 | -0.0480 | -0.0273 | 0.0066 | 0.3751 | 00.749 | 057.26 | 054 | |
| 09.92 | 1.6531 | 0.406 | 1.5502 | 0.7320 | 0.4560 | 0.5321 | -0.0480 | -0.0195 | 0.0066 | 0.3751 | 00.747 | 057.33 | 055 | |
| 10.20 | 1.7304 | 0.443 | 1.6222 | 0.7554 | 0.4561 | 0.5331 | -0.0484 | -0.0499 | 0.0076 | 0.3750 | 00.772 | 057.20 | 056 | |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 69 | | | | | | | | | | | |
|---|--------|----------------|--------|--------|--------|----------------|---------|----------------|----------------|----------------|----------------|
| HSWT TEST 69 | | | | | | | | | | | |
| RUN 017 MACH NO 2.990 RVNL 08177071 Q 1427 PSF TO 584 | | | | | | | | | | | |
| 10/17/62 | | | | | | | | | | | |
| COEFFICIENTS | | | | | | | | | | | |
| ALPHA | N | P _M | L | D | A | A _U | Y | Y _M | R _M | A _B | C _P |
| 10.50 | 1.8144 | 00.326 | 1.7011 | 0.7776 | 0.4547 | 0.5363 | -0.0394 | -0.0577 | 0.0075 | 0.3796 | 0.0.881 |
| 10.91 | 1.9240 | 00.592 | 1.8030 | 0.8113 | 0.4554 | 0.5350 | -0.0402 | -0.0586 | 0.0094 | 0.3796 | 0.0.935 |
| 11.25 | 2.0393 | 30.460 | 1.9135 | 0.8465 | 0.4597 | 0.5392 | -0.0447 | -0.0604 | 0.0101 | 0.3796 | 0.0.983 |
| 11.43 | 2.0904 | 30.697 | 1.9577 | 0.8655 | 0.4605 | 0.5401 | -0.0418 | -0.0377 | 0.0090 | 0.3796 | 0.0.912 |
| 11.47 | 2.1264 | 00.704 | 1.9926 | 0.8732 | 0.4597 | 0.5383 | -0.0422 | -0.0305 | 0.0103 | 0.3796 | 0.0.006 |
| 11.50 | 2.1520 | 00.702 | 2.0166 | 0.8825 | 0.4627 | 0.5408 | -0.0425 | -0.0304 | 0.0094 | 0.3781 | 0.0.990 |
| 11.50 | 2.1663 | 00.708 | 2.0096 | 0.8769 | 0.4607 | 0.503 | -0.0623 | -0.0360 | 0.0099 | 0.3796 | 0.0.004 |
| 11.51 | 2.1580 | 30.737 | 2.0223 | 0.8842 | 0.4631 | 0.5411 | -0.0354 | -0.0446 | 0.0108 | 0.3781 | 0.0.038 |
| 00.14 | 0.0670 | -00.063 | 0.0659 | 0.4370 | 0.4369 | 0.5135 | -0.0150 | -0.0021 | 0.0008 | 0.3766 | -02.840 |
| | | | | | | | | | | | 057.33 065 |

HSM T TEST 69

CVC HIGH SPEED: 41.91 FNUFL TEST NUMBER 89
 RUN 016 MACH NO 2.99F ROLL 0101005 . 1427 PSF T3 588

10/17/62

C. EFFICIENCIES

| ALPHA | N | PW | L | D | A | AU | Y | YM | RM | A6 | CP | P0 | PNT |
|--------|---------|---------|---------|--------|--------|--------|--------|---------|---------|---------|--------|------------|------------|
| 00-17 | 0.3423 | 30.052 | 0.0412 | 3.3778 | 1.3777 | 1.3777 | 1.3794 | 1.3779 | -0.0264 | 0.3000 | 0.3617 | 0.3720 | 0.5733 006 |
| -11.98 | -1.8033 | -33.723 | -1.7655 | 0.7529 | 1.3703 | 1.3703 | 1.6510 | 1.026 | -0.0224 | -0.0009 | 0.3811 | 0.6115 | 0.5726 007 |
| -11.63 | -1.7315 | -31.807 | -1.6718 | 0.7243 | 1.3724 | 1.3724 | 1.0181 | -0.3076 | -0.0054 | -0.0004 | 0.3796 | 0.6182 | 0.5720 308 |
| -11.21 | -1.6566 | -31.877 | -1.5527 | 0.6870 | 1.3719 | 1.3719 | 1.4114 | 0.0929 | -0.0225 | -0.0004 | 0.3796 | 0.7109 | 0.5726 009 |
| -10.77 | -1.5185 | -33.928 | -1.4221 | 1.6439 | 1.3726 | 1.3726 | 1.4527 | 0.0849 | -0.0428 | -0.0011 | 0.3781 | 0.7858 | 0.5733 010 |
| -10.32 | -1.3447 | -03.925 | -1.2957 | 0.6139 | 1.3718 | 1.3718 | 1.4499 | 0.0852 | -0.0212 | -0.0012 | 0.3781 | 0.8000 | 0.5726 011 |
| -09.83 | -1.2016 | -33.769 | -1.1797 | 0.5811 | 1.3711 | 1.3711 | 1.4477 | 0.0830 | -0.0206 | -0.0006 | 0.3766 | 0.9075 | 0.5733 012 |
| -09.32 | -1.1590 | -33.594 | -1.0748 | 0.5521 | 1.3709 | 1.3709 | 1.4459 | 0.0846 | -0.0249 | -0.0013 | 0.3751 | 0.9494 | 0.5726 013 |
| -08.85 | -1.1315 | -33.380 | -0.9686 | 0.5228 | 1.3676 | 1.3676 | 1.4441 | 0.0719 | -0.0080 | -0.0008 | 0.3766 | 0.9397 | 0.5726 014 |
| -08.36 | -1.9338 | -33.165 | -0.8720 | 0.5017 | 1.3694 | 1.3694 | 1.4430 | 0.0661 | -0.0057 | -0.0014 | 0.3736 | 1.0296 | 0.5733 015 |
| -07.91 | -0.8933 | -0.7813 | -0.4822 | 0.3701 | 1.4422 | 1.4422 | 0.0605 | 0.0055 | -0.0055 | -0.0005 | 0.3721 | 1.0502 | 0.5726 316 |
| -07.45 | -0.7759 | -02.767 | -0.7218 | 1.6464 | 1.3671 | 1.3671 | 0.0519 | 0.0063 | -0.0004 | -0.0004 | 0.3721 | 1.0834 | 0.5720 317 |
| -06.39 | -0.6991 | -02.587 | -0.6490 | 1.4517 | 1.3694 | 1.3694 | 0.6161 | -0.0115 | -0.0007 | 0.0007 | 0.3706 | 1.1242 | 0.5720 018 |
| -06.47 | -0.6559 | -0.388 | -0.5805 | 0.3555 | 1.3673 | 1.3673 | 1.4364 | 0.0435 | -0.0137 | -0.0007 | 0.3691 | 1.1590 | 0.5726 019 |
| -06.35 | -0.5642 | -0.225 | -0.5223 | 0.4254 | 1.3680 | 1.3680 | 1.4356 | 0.0356 | -0.0118 | -0.0002 | 0.3676 | 1.1997 | 0.5726 020 |
| -05.58 | -0.5327 | -02.351 | -0.4564 | 1.4170 | 1.3699 | 1.3699 | 1.4360 | 0.0356 | -0.0182 | -0.0001 | 0.3661 | 1.2397 | 0.5726 021 |
| -05.39 | -0.4882 | -0.8891 | -0.4156 | 0.4093 | 1.3709 | 1.3709 | 1.4341 | 0.0264 | -0.0062 | -0.0005 | 0.3661 | 1.2119 | 0.5733 022 |
| -04.60 | -0.3927 | -01.733 | -0.3618 | 0.4004 | 1.3701 | 1.3701 | 1.4332 | 0.0257 | -0.0152 | -0.0009 | 0.3632 | 1.3408 | 0.5733 023 |
| -04.15 | -0.3480 | -0.1593 | -0.3204 | 1.3940 | 1.3698 | 1.3698 | 1.4316 | 0.0259 | -0.0059 | -0.0004 | 0.3617 | 1.3938 | 0.5739 024 |
| -03.68 | -0.3112 | -01.455 | -0.2870 | 0.3871 | 1.3679 | 1.3679 | 1.4297 | 0.0209 | -0.0109 | -0.0004 | 0.3618 | 1.4202 | 0.5746 025 |
| -03.21 | -0.2477 | -01.311 | -0.2465 | 0.3850 | 1.3706 | 1.3706 | 1.4308 | 0.0172 | -0.0219 | -0.0007 | 0.3602 | 1.4881 | 0.5733 026 |
| -02.73 | -0.2442 | -01.139 | -0.2362 | 0.3813 | 1.3710 | 1.3710 | 1.4314 | 0.0164 | -0.0164 | -0.0003 | 0.3602 | 1.5432 | 0.5733 027 |
| -02.27 | -0.1655 | -00.962 | -0.1816 | 0.3798 | 1.3724 | 1.3724 | 1.4325 | 0.0161 | -0.0166 | -0.0004 | 0.3601 | 1.6878 | 0.5726 028 |
| -01.85 | -0.1599 | -00.816 | -0.1679 | 0.3752 | 1.3702 | 1.3702 | 1.4319 | 0.0089 | -0.0269 | -0.0004 | 0.3617 | 1.5500 | 0.5733 029 |
| -01.36 | -0.1241 | -00.636 | -0.1153 | 0.3136 | 1.3707 | 1.3707 | 1.4325 | 0.0050 | -0.0221 | -0.0001 | 0.3617 | 1.5557 | 0.5739 030 |
| -00.93 | -0.1001 | -00.477 | -0.0361 | 0.3723 | 1.3723 | 1.3723 | 1.4224 | 0.0081 | -0.0085 | -0.0005 | 0.3617 | 1.4465 | 0.5733 031 |
| -00.47 | -0.3663 | -00.298 | -0.0613 | 0.3726 | 1.3721 | 1.3721 | 1.4338 | 0.0445 | -0.0333 | -0.0004 | 0.3616 | 1.4074 | 0.5726 032 |
| -00.33 | -0.3225 | -00.119 | -0.0320 | 0.3111 | 0.3711 | 0.3711 | 1.4228 | 0.0060 | -0.0284 | -0.0000 | 0.3617 | 1.4136 | 0.5733 033 |
| -00.43 | -0.0316 | -00.016 | -0.0104 | 0.3730 | 1.3731 | 1.3731 | 1.4347 | -0.0033 | -0.0316 | -0.0007 | 0.3616 | 1.4681 | 0.5720 034 |
| 00.90 | 0.3255 | 00.228 | 0.0198 | 0.3738 | 1.3734 | 1.3734 | 1.4351 | -0.0048 | -0.0343 | -0.0001 | 0.3616 | 2.2118 | 0.5726 035 |
| 01.34 | 0.2511 | 00.380 | 0.0423 | 0.3768 | 1.3752 | 1.3752 | 1.4354 | -0.0050 | -0.0221 | -0.0010 | 0.3602 | 2.2553 | 0.5733 036 |
| 01.81 | 0.3813 | 03.562 | 0.0684 | 0.3763 | 1.3760 | 1.3760 | 1.4337 | -0.0111 | -0.0033 | -0.0009 | 0.3617 | 21.639 | 0.5733 037 |
| 02.26 | 0.1689 | 00.752 | 0.1021 | 0.3850 | 1.3757 | 1.3757 | 1.4360 | 0.0162 | -0.0438 | -0.0018 | 0.3603 | 19.548 | 0.5746 038 |
| 02.72 | 0.1944 | 00.898 | 0.1363 | 0.3843 | 1.3774 | 1.3774 | 1.4377 | -0.0142 | -0.0320 | -0.0016 | 0.3603 | 17.678 | 0.5739 039 |
| 03.20 | 0.1872 | 01.258 | 0.1659 | 0.3856 | 1.3758 | 1.3758 | 1.4376 | 0.0157 | -0.0482 | -0.0022 | 0.3631 | 13.632 | 0.5726 040 |
| 03.55 | 0.2392 | 01.257 | 0.2044 | 0.3939 | 0.3809 | 0.3809 | 1.4403 | -0.0206 | -0.0662 | -0.0021 | 0.3631 | 12.700 | 0.5726 041 |
| 04.10 | 0.2668 | 02.152 | 0.4303 | 0.3889 | 0.3785 | 0.3785 | 1.4402 | -0.0221 | -0.0610 | -0.0026 | 0.3646 | 12.178 | 0.5726 042 |
| 04.59 | 0.3117 | 01.502 | 0.2803 | 0.4042 | 0.3895 | 0.4042 | 1.4515 | -0.0239 | -0.0563 | -0.0022 | 0.3676 | 11.732 | 0.5726 043 |
| 05.21 | 0.3697 | 01.641 | 0.3262 | 0.4095 | 0.3795 | 0.4095 | 1.4684 | -0.0220 | -0.0581 | -0.0034 | 0.3631 | 11.211 | 0.5726 044 |
| 05.44 | 0.3581 | 01.787 | 0.3602 | 0.4170 | 0.3810 | 0.4441 | 0.0305 | -0.0616 | -0.0031 | 0.3631 | 10.659 | 0.5733 051 | |
| 05.98 | 0.4731 | 01.965 | 0.4275 | 0.4316 | 0.3847 | 0.4479 | 0.0356 | -0.0726 | -0.0035 | 0.3707 | 10.320 | 0.5733 052 | |
| 09.31 | 1.2031 | 03.307 | 0.9467 | 0.4418 | 0.3837 | 0.4483 | 0.0295 | -0.0332 | -0.0043 | 0.3646 | 0.819 | 0.5739 053 | |
| 29.78 | 1.1199 | 03.537 | 1.0375 | 0.5229 | 0.4515 | 0.3817 | 0.4694 | -0.0236 | -0.0589 | -0.0060 | 0.3676 | 0.5956 | 0.5733 054 |
| 10.12 | 1.2112 | 03.687 | 1.1293 | 0.6002 | 0.3925 | 0.3891 | 0.4627 | -0.0230 | -0.0912 | -0.0092 | 0.3736 | 0.204 | 0.5733 055 |
| 10.42 | 1.2379 | 03.814 | 1.1953 | 0.6212 | 0.3949 | 0.4685 | 0.4685 | -0.0236 | -0.0936 | -0.0094 | 0.3736 | 0.957 | 0.5733 056 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSWT TEST 69 | | | | |
|---|--------|----------------|--------|--------|----------|----------------|---------|----------------|----------------|----------------|----------------|----------------|-----------------|--|
| RUN | 018 | MACH NO | 2.990 | RNL | 08101905 | Q | 1427 | PSF | TO | 588 | | | | |
| COEFFICIENTS | | | | | | | | | | | | | | |
| ALPHA | N | P _M | L | D | A | A _U | V | Y _H | R _M | A _B | C _P | P _O | P _{WT} | |
| 10.76 | 1.1569 | 03.932 | 1.2576 | 0.6607 | 0.3952 | 0.6688 | -0.0202 | -0.1130 | 0.0102 | 0.3736 | 08.815 | 057.33 | 057 | |
| 11.13 | 1.4720 | 04.043 | 1.3682 | 0.6722 | 0.3963 | 0.6699 | -0.0177 | -0.1068 | 0.0096 | 0.3776 | 08.344 | 057.33 | 058 | |
| 11.52 | 1.7746 | 04.182 | 1.4632 | 0.7053 | 0.3989 | 0.4740 | -0.0222 | -0.0727 | 0.0104 | 0.3751 | 08.068 | 057.26 | 059 | |
| 11.68 | 1.6317 | 04.245 | 1.5167 | 0.7233 | 0.4013 | 0.4764 | -0.0185 | -0.1182 | 0.0113 | 0.3751 | 07.904 | 057.26 | 060 | |
| 11.69 | 1.6619 | 04.269 | 1.5459 | 0.7304 | 0.4019 | 0.4771 | -0.0225 | -0.0821 | 0.0113 | 0.3752 | 07.804 | 057.39 | 061 | |
| 11.80 | 1.6653 | 04.278 | 1.5681 | 0.7333 | 0.4012 | 0.4749 | -0.0226 | -0.0820 | 0.0104 | 0.3737 | 07.805 | 057.39 | 062 | |
| 11.81 | 1.6711 | 04.292 | 1.5934 | 0.7357 | 0.4023 | 0.4760 | -0.0188 | -0.1041 | 0.0111 | 0.3737 | 07.803 | 057.46 | 263 | |
| 30.23 | 0.3577 | 30.3664 | 0.0564 | 0.3778 | 0.3776 | 0.4408 | -0.0117 | -0.0327 | 0.0093 | 0.3632 | 03.348 | 057.39 | 064 | |

HSAT TEST 89

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89
 RUN 019 MAC-1 VD 3.9BC RNL 115263/6 J 1654 PSF TJ 590

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COEFFICIENTS

| ALPHA | V | PM | L | U | A | AU | Y | YM | RM | AH | CP | PO | PNT |
|--------|---------|---------|---------|--------|--------|---------|---------|---------|---------|--------|---------|-----|-----|
| 20.36 | -0.2034 | 00.367 | 0.00015 | 0.3045 | 0.3536 | -0.0100 | -0.0532 | -0.0118 | -0.0491 | 60.111 | 135.32 | 006 | |
| -12.56 | -1.5182 | -03.357 | -1.4351 | 0.5829 | 0.3073 | 0.3666 | 0.0861 | 0.0322 | 0.0209 | 0.593 | 134.32 | 007 | |
| -10.44 | -1.4656 | -03.496 | -1.3858 | 0.5671 | 0.3067 | 0.3688 | 0.0768 | 0.0322 | 0.0209 | 0.593 | 134.67 | 008 | |
| -10.21 | -1.4172 | -03.227 | -1.3406 | 0.5515 | 0.3051 | 0.3645 | 0.0738 | 0.0089 | -0.0020 | 0.593 | 134.67 | 009 | |
| -39.98 | -1.3687 | -03.176 | -1.2950 | 0.5385 | 0.3058 | 0.3652 | 0.0742 | 0.0137 | -0.0224 | 0.593 | 134.67 | 010 | |
| -39.76 | -1.3254 | -03.105 | -1.2497 | 0.5218 | 0.3054 | 0.3638 | 0.0715 | 0.0099 | -0.0017 | 0.593 | 134.67 | 011 | |
| -39.50 | -1.2753 | -03.052 | -1.2076 | 0.5134 | 0.3040 | 0.3634 | 0.0723 | 0.0071 | -0.0017 | 0.593 | 134.32 | 012 | |
| -39.25 | -1.2270 | -02.991 | -1.1621 | 0.4972 | 0.3039 | 0.3618 | 0.0727 | -0.0028 | -0.0022 | 0.593 | 134.32 | 013 | |
| -39.32 | -1.1756 | -02.922 | -1.1137 | 0.4859 | 0.3022 | 0.3601 | 0.0648 | -0.0058 | -0.0017 | 0.579 | 134.32 | 014 | |
| -38.77 | -1.1233 | -02.876 | -1.0642 | 0.4697 | 0.3014 | 0.3598 | 0.0672 | 0.0059 | -0.0019 | 0.578 | 133.98 | 015 | |
| -38.52 | -1.0768 | -02.790 | -1.0238 | 0.4535 | 0.2973 | 0.3566 | 0.0663 | -0.0083 | -0.0014 | 0.559 | 134.32 | 016 | |
| -38.32 | -1.0279 | -02.717 | -0.9739 | 0.4439 | 0.2983 | 0.3562 | 0.0620 | -0.0177 | -0.0013 | 0.5578 | 133.98 | 017 | |
| -38.37 | -0.9767 | -02.665 | -0.9252 | 0.4315 | 0.2973 | 0.3566 | 0.0640 | -0.0106 | -0.0015 | 0.5593 | 133.98 | 018 | |
| -38.85 | -0.9250 | -02.603 | -0.8755 | 0.4228 | 0.2992 | 0.3571 | 0.0592 | -0.0122 | -0.0039 | 0.5578 | 133.98 | 019 | |
| -37.61 | -0.8874 | -02.533 | -0.8401 | 0.4130 | 0.2981 | 0.3560 | 0.0548 | -0.0140 | -0.0012 | 0.5578 | 133.63 | 020 | |
| -37.37 | -0.8355 | -02.479 | -0.7905 | 0.4015 | 0.2968 | 0.3567 | 0.0500 | -0.0155 | -0.0006 | 0.5578 | 133.63 | 021 | |
| -37.15 | -0.7857 | -02.433 | -0.7427 | 0.3915 | 0.2961 | 0.3539 | 0.0487 | -0.0239 | -0.0010 | 0.5578 | 133.98 | 022 | |
| -36.93 | -0.7515 | -02.334 | -0.7130 | 0.3867 | 0.2982 | 0.3546 | 0.0478 | -0.0259 | -0.0011 | 0.5564 | 133.63 | 023 | |
| -36.71 | -0.7019 | -02.258 | -0.6628 | 0.3742 | 0.2942 | 0.3526 | 0.0464 | -0.0259 | -0.0011 | 0.5564 | 133.98 | 024 | |
| -36.42 | -0.6620 | -02.191 | -0.6250 | 0.3660 | 0.2939 | 0.3502 | 0.0416 | -0.0127 | -0.0014 | 0.5564 | 133.98 | 025 | |
| -36.25 | -0.6258 | -02.115 | -0.5901 | 0.3602 | 0.2938 | 0.3502 | 0.0371 | -0.0164 | -0.0012 | 0.5564 | 133.98 | 026 | |
| -36.21 | -0.5920 | -02.027 | -0.5581 | 0.3527 | 0.2924 | 0.3487 | 0.0316 | -0.0161 | -0.0013 | 0.5564 | 133.63 | 027 | |
| -35.15 | -0.5541 | -01.963 | -0.5220 | 0.3468 | 0.2925 | 0.3475 | 0.0316 | -0.0243 | -0.0014 | 0.5549 | 10.764 | 028 | |
| -35.52 | -0.5219 | -01.881 | -0.4916 | 0.3392 | 0.2904 | 0.3468 | 0.0308 | -0.0401 | -0.0015 | 0.5564 | 10.967 | 029 | |
| -35.39 | -0.4934 | -01.816 | -0.4646 | 0.3342 | 0.2899 | 0.3449 | 0.0296 | -0.0189 | -0.0010 | 0.5549 | 11.176 | 030 | |
| -35.30 | -0.4663 | -01.750 | -0.4370 | 0.3316 | 0.2929 | 0.3456 | 0.0222 | -0.0286 | -0.0014 | 0.5535 | 11.153 | 031 | |
| -34.80 | -0.4428 | -01.670 | -0.4167 | 0.3233 | 0.2933 | 0.3467 | 0.0222 | -0.0367 | -0.0015 | 0.5535 | 11.659 | 032 | |
| -34.34 | -0.4143 | -01.617 | -0.3899 | 0.3238 | 0.2919 | 0.3439 | 0.0211 | -0.0448 | -0.0019 | 0.5520 | 11.661 | 033 | |
| -34.31 | -0.3928 | -01.537 | -0.3696 | 0.3217 | 0.2930 | 0.3450 | 0.0183 | -0.0390 | -0.0016 | 0.5520 | 11.688 | 034 | |
| -34.29 | -0.3623 | -01.476 | -0.3406 | 0.3156 | 0.2995 | 0.3440 | 0.0144 | -0.0329 | -0.0014 | 0.5535 | 12.378 | 035 | |
| -33.84 | -0.3416 | -01.400 | -0.3212 | 0.3157 | 0.2935 | 0.3446 | 0.0179 | -0.0479 | -0.0020 | 0.5505 | 13.448 | 036 | |
| -33.62 | -0.3160 | -01.343 | -0.2969 | 0.3126 | 0.2934 | 0.3439 | 0.0140 | -0.0272 | -0.0018 | 0.5505 | 12.915 | 037 | |
| -33.37 | -0.2941 | -01.271 | -0.2764 | 0.3092 | 0.2925 | 0.3430 | 0.0139 | -0.0426 | -0.0017 | 0.5505 | 13.133 | 038 | |
| -33.15 | -0.2763 | -01.192 | -0.2560 | 0.3079 | 0.2931 | 0.3436 | 0.0139 | -0.0581 | -0.0014 | 0.5505 | 13.108 | 039 | |
| -32.90 | -0.2513 | -01.130 | -0.2360 | 0.3073 | 0.2950 | 0.3440 | 0.0137 | -0.0590 | -0.0025 | 0.5490 | 13.668 | 040 | |
| -32.68 | -0.2336 | -01.053 | -0.2196 | 0.3051 | 0.2945 | 0.3450 | 0.0097 | -0.0459 | -0.0019 | 0.5505 | 13.651 | 041 | |
| -32.46 | -0.2156 | -00.503 | -0.1785 | 0.3043 | 0.2953 | 0.3443 | 0.0127 | -0.0460 | -0.0017 | 0.5490 | 13.390 | 042 | |
| -32.23 | -0.1932 | -00.926 | -0.1785 | 0.3036 | 0.2964 | 0.3454 | 0.0118 | -0.0488 | -0.0016 | 0.5490 | 14.636 | 043 | |
| -32.01 | -0.1739 | -00.855 | -0.1734 | 0.3016 | 0.2953 | 0.3458 | 0.0084 | -0.0485 | -0.0012 | 0.5505 | 13.614 | 044 | |
| -31.77 | -0.1662 | -00.745 | -0.1570 | 0.3028 | 0.2958 | 0.3448 | 0.0045 | -0.0505 | -0.0014 | 0.5490 | 13.613 | 045 | |
| -31.55 | -0.1524 | -0.665 | -0.1463 | 0.3035 | 0.2965 | 0.3455 | 0.0061 | -0.0510 | -0.0023 | 0.5490 | 13.257 | 046 | |
| -31.34 | -0.1344 | -0.584 | -0.1274 | 0.3019 | 0.2989 | 0.3479 | 0.0037 | -0.0593 | -0.0011 | 0.5490 | 13.301 | 047 | |
| -31.09 | -0.1204 | -00.503 | -0.1148 | 0.2992 | 0.2970 | 0.3460 | 0.0003 | -0.0460 | -0.0022 | 0.5490 | 12.684 | 048 | |
| -30.88 | -0.1026 | -0.431 | -0.0981 | 0.2994 | 0.2978 | 0.3469 | 0.0029 | -0.0536 | -0.0025 | 0.5490 | 12.757 | 049 | |
| -30.64 | -0.0923 | -00.352 | -0.0890 | 0.3022 | 0.3012 | 0.3487 | 0.0045 | -0.0557 | -0.0012 | 0.5476 | 11.561 | 050 | |
| -30.44 | -0.3785 | -00.264 | -0.0762 | 0.2993 | 0.2987 | 0.3477 | 0.0012 | -0.0708 | -0.0019 | 0.5490 | 10.220 | 051 | |
| -30.20 | -0.3646 | -00.193 | -0.0636 | 0.2982 | 0.2980 | 0.3485 | 0.0019 | -0.0510 | -0.0011 | 0.5505 | 9.063 | 052 | |
| -30.32 | -0.3470 | -00.104 | -0.0471 | 0.3016 | 0.3016 | 0.3492 | 0.0092 | -0.0592 | -0.0015 | 0.5476 | 6.739 | 053 | |
| -30.23 | -0.3335 | -00.225 | -0.0347 | 0.3000 | 0.3002 | 0.3492 | 0.0059 | -0.0464 | -0.0021 | 0.5491 | 0.271 | 054 | |
| -30.18 | -0.3154 | -00.054 | -0.0180 | 0.3021 | 0.3022 | 0.3513 | -0.0062 | -0.0597 | -0.0011 | 0.5491 | -10.666 | 055 | |
| 00.70 | -0.0052 | 00.149 | -0.0089 | 0.3014 | 0.3014 | 0.3505 | -0.0102 | -0.0686 | -0.0016 | 0.5490 | -87.553 | 056 | |

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89
RUN 019 MACH NO 3.980 RNL 11526396 Q 145° PSF TO 590

10/17/62

COEFFICIENTS

| ALPHA | N | P _M | L | D | A | A _U | V | V _M | R _M | A _H | C _P | P _O | P _N |
|-------|--------|----------------|--------|--------|--------|----------------|---------|----------------|----------------|----------------|----------------|----------------|----------------|
| 30.95 | 0.0166 | 30.221 | 0.0117 | 0.3007 | 0.3005 | 0.3495 | -0.0041 | -0.0680 | -0.3011 | 0.3490 | 40.328 | 134.32 | 057 |
| 31.17 | 0.0305 | 00.308 | 0.0243 | 0.3042 | 0.3042 | 0.3517 | -0.0084 | -0.0548 | -0.3020 | 0.476 | 30.663 | 134.32 | 058 |
| 31.39 | 0.0410 | 00.386 | 0.0336 | 0.3058 | 0.3029 | 0.3519 | -0.0124 | -0.0560 | -0.0221 | 0.490 | 134.32 | 059 | |
| 31.61 | 0.0591 | 00.457 | 0.0506 | 0.3034 | 0.3059 | 0.3519 | -0.0098 | -0.0581 | -0.0309 | 0.490 | 23.504 | 134.32 | 060 |
| 31.86 | 0.0694 | 30.552 | 0.0595 | 0.3055 | 0.3034 | 0.3525 | -0.0139 | -0.0575 | -0.03010 | 0.490 | 24.185 | 134.32 | 061 |
| 32.10 | 0.0875 | 00.615 | 0.0762 | 0.3084 | 0.3054 | 0.3530 | -0.0146 | -0.0580 | -0.0309 | 0.476 | 21.362 | 134.32 | 062 |
| 32.32 | 0.0980 | 00.701 | 0.0856 | 0.3075 | 0.3038 | 0.3514 | -0.0152 | -0.0662 | -0.0306 | 0.476 | 21.738 | 134.32 | 063 |
| 32.54 | 0.1201 | 30.775 | 0.1065 | 0.3090 | 0.3039 | 0.3515 | -0.0196 | -0.0602 | -0.0300 | 0.475 | 19.604 | 133.98 | 064 |
| 32.76 | 0.1345 | 00.837 | 0.1197 | 0.3106 | 0.3045 | 0.3520 | -0.0202 | -0.0607 | -0.0301 | 0.475 | 18.905 | 133.98 | 065 |
| 32.98 | 0.1486 | 00.933 | 0.1326 | 0.3122 | 0.3049 | 0.3539 | -0.0244 | -0.0622 | -0.0001 | 0.390 | 19.072 | 133.98 | 066 |
| 33.22 | 0.1702 | 00.986 | 0.1528 | 0.3137 | 0.3046 | 0.3522 | -0.0252 | -0.0552 | -0.0006 | 0.376 | 17.597 | 134.32 | 067 |
| 33.44 | 0.1863 | 01.073 | 0.1657 | 0.3156 | 0.3051 | 0.3562 | -0.0259 | -0.0560 | -0.0007 | 0.369 | 17.687 | 134.32 | 068 |
| 33.68 | 0.2102 | 01.137 | 0.1901 | 0.3185 | 0.3056 | 0.3552 | -0.0231 | -0.0737 | -0.0011 | 0.376 | 16.439 | 134.32 | 069 |
| 33.90 | 0.2244 | 31.208 | 0.2032 | 0.3190 | 0.3045 | 0.3521 | -0.0213 | -0.0646 | -0.0014 | 0.376 | 16.348 | 134.32 | 070 |
| 34.12 | 0.2500 | 01.280 | 0.2275 | 0.3220 | 0.3057 | 0.3567 | -0.0247 | -0.0647 | -0.0017 | 0.369 | 15.558 | 134.32 | 071 |
| 34.33 | 0.2720 | 01.352 | 0.2480 | 0.3276 | 0.3078 | 0.3570 | -0.0259 | -0.0733 | -0.0021 | 0.390 | 15.103 | 134.32 | 072 |
| 34.51 | 0.2976 | 01.425 | 0.2719 | 0.3316 | 0.3086 | 0.3577 | -0.0263 | -0.0734 | -0.0024 | 0.390 | 14.547 | 134.32 | 073 |
| 34.81 | 0.3156 | 01.496 | 0.2886 | 0.3349 | 0.3096 | 0.3588 | -0.0271 | -0.0667 | -0.0020 | 0.369 | 14.403 | 134.32 | 074 |
| 35.06 | 0.3444 | 01.577 | 0.3159 | 0.3372 | 0.3087 | 0.3644 | -0.0279 | -0.0743 | -0.0017 | 0.3505 | 13.740 | 134.67 | 075 |
| 35.29 | 0.3670 | 01.642 | 0.3369 | 0.3423 | 0.3098 | 0.3603 | -0.0289 | -0.0681 | -0.0031 | 0.3505 | 13.594 | 134.32 | 076 |
| 35.52 | 0.3951 | 31.723 | 0.3635 | 0.3667 | 0.3101 | 0.3606 | -0.0230 | -0.0602 | -0.0032 | 0.3505 | 13.222 | 134.67 | 077 |
| 35.72 | 0.4259 | 01.789 | 0.3927 | 0.3726 | 0.3086 | 0.3622 | -0.0267 | -0.0694 | -0.0024 | 0.3505 | 12.764 | 134.32 | 078 |
| 36.30 | 0.4577 | 01.867 | 0.4227 | 0.3570 | 0.3108 | 0.3628 | -0.0281 | -0.0621 | -0.0032 | 0.3520 | 12.395 | 134.67 | 079 |
| 36.23 | 0.4924 | 31.947 | 0.4553 | 0.3660 | 0.3144 | 0.3649 | -0.0389 | -0.0650 | -0.0036 | 0.3505 | 12.013 | 134.32 | 080 |
| 36.46 | 0.5257 | 02.030 | 0.4872 | 0.3696 | 0.3124 | 0.3664 | -0.0321 | -0.1793 | -0.0033 | 0.3520 | 11.731 | 134.32 | 081 |
| 36.72 | 0.5628 | 02.106 | 0.5220 | 0.3793 | 0.3156 | 0.3676 | -0.0317 | -0.0656 | -0.0034 | 0.3520 | 11.369 | 134.32 | 082 |
| 36.98 | 0.5999 | 02.193 | 0.5570 | 0.3873 | 0.3167 | 0.3687 | -0.0329 | -0.0740 | -0.0040 | 0.3520 | 11.090 | 134.32 | 083 |
| 37.21 | 0.6464 | 32.265 | 01.880 | 0.4013 | 0.3180 | 0.3699 | -0.0336 | -0.0677 | -0.0046 | 0.3520 | 10.644 | 134.32 | 084 |
| 37.47 | 0.6818 | 32.335 | 0.6347 | 0.4063 | 0.3108 | 0.3703 | -0.0374 | -0.0617 | -0.0041 | 0.3520 | 10.402 | 134.32 | 085 |
| 37.70 | 0.7267 | 02.404 | 0.6775 | 0.4130 | 0.3185 | 0.3705 | -0.0448 | -0.0564 | -0.0050 | 0.3520 | 10.048 | 134.32 | 086 |
| 37.93 | 0.7773 | 02.488 | 0.7255 | 0.4214 | 0.3214 | 0.3733 | -0.0383 | -0.0711 | -0.0056 | 0.3520 | 9.724 | 133.98 | 087 |
| 38.19 | 0.8337 | 32.543 | 0.7792 | 0.4378 | 0.3223 | 0.3742 | -0.0376 | -0.0565 | -0.0059 | 0.3520 | 9.320 | 133.98 | 088 |
| 38.40 | 0.8763 | 02.613 | 0.8201 | 0.4447 | 0.3201 | 0.3736 | -0.0359 | -0.0572 | -0.0060 | 0.3535 | 9.061 | 134.32 | 089 |
| 38.66 | 0.9248 | 32.683 | 0.8662 | 0.4546 | 0.3190 | 0.3739 | -0.0369 | -0.0441 | -0.0067 | 0.3549 | 8.815 | 134.32 | 090 |
| 38.99 | 0.9735 | 32.753 | 0.9120 | 0.4690 | 0.3223 | 0.3759 | -0.0368 | -0.0590 | -0.0062 | 0.3535 | 8.591 | 134.32 | 091 |
| 39.15 | 1.0218 | 32.823 | 0.9575 | 0.4811 | 0.3226 | 0.3761 | -0.0439 | -0.0545 | -0.0071 | 0.3535 | 8.392 | 134.32 | 092 |
| 39.38 | 1.0702 | 32.884 | 1.0024 | 0.4981 | 0.3280 | 0.3800 | -0.0371 | -0.0619 | -0.0071 | 0.3520 | 8.186 | 134.32 | 093 |
| 39.59 | 1.1189 | 32.928 | 1.0491 | 0.5074 | 0.3256 | 0.3791 | -0.0409 | -0.0636 | -0.0077 | 0.3520 | 7.950 | 134.32 | 094 |
| 39.74 | 1.1594 | 33.005 | 1.0872 | 0.5194 | 0.3280 | 0.3815 | -0.0347 | -0.0572 | -0.0075 | 0.3535 | 7.873 | 134.32 | 095 |
| 39.94 | 1.2045 | 33.031 | 1.1299 | 0.5302 | 0.3272 | 0.3807 | -0.0449 | -0.0694 | -0.0083 | 0.3535 | 7.646 | 134.32 | 096 |
| 40.39 | 1.2377 | 33.108 | 1.1610 | 0.5406 | 0.3283 | 0.3823 | -0.0378 | -0.0742 | -0.0082 | 0.3535 | 7.624 | 134.32 | 097 |
| 40.79 | 1.2789 | 33.124 | 1.2000 | 0.5509 | 0.3304 | 0.3818 | -0.0452 | -0.0683 | -0.0081 | 0.3535 | 7.420 | 134.32 | 098 |
| 41.38 | 1.2975 | 33.179 | 1.2168 | 0.5586 | 0.3302 | 0.3822 | -0.0378 | -0.0683 | -0.0075 | 0.3520 | 7.443 | 134.67 | 099 |
| 41.52 | 1.3351 | 33.196 | 1.2521 | 0.5694 | 0.3311 | 0.3831 | -0.0409 | -0.0609 | -0.0077 | 0.3520 | 7.272 | 134.67 | 100 |
| 41.67 | 1.3606 | 33.251 | 1.2757 | 0.5781 | 0.3320 | 0.3840 | -0.0367 | -0.0694 | -0.0083 | 0.3520 | 7.259 | 134.32 | 101 |
| 41.84 | 1.4054 | 33.286 | 1.3177 | 0.5915 | 0.3331 | 0.3851 | -0.0352 | -0.0482 | -0.0086 | 0.3520 | 7.104 | 134.32 | 102 |
| 41.91 | 1.4390 | 33.336 | 1.3489 | 0.6019 | 0.3332 | 0.3862 | -0.0412 | -0.0643 | -0.0073 | 0.3520 | 6.932 | 134.32 | 103 |
| 41.97 | 1.4833 | 33.375 | 1.3895 | 0.6173 | 0.3338 | 0.3872 | -0.0319 | -0.0574 | -0.0080 | 0.3520 | 6.973 | 134.32 | 104 |
| 42.02 | 1.5246 | 33.431 | 1.4281 | 0.6299 | 0.3346 | 0.3865 | -0.0328 | -0.0440 | -0.0085 | 0.3520 | 6.836 | 134.32 | 105 |
| 42.08 | 1.5464 | 33.448 | 1.4482 | 0.6375 | 0.3355 | 0.3875 | -0.0356 | -0.0523 | -0.0079 | 0.3520 | 6.833 | 134.67 | 106 |
| 42.14 | 1.5772 | 33.501 | 1.4772 | 0.6479 | 0.3382 | 0.3902 | -0.0360 | -0.0528 | -0.0088 | 0.3520 | 6.743 | 133.98 | 107 |

HSWT TEST 89

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89
RUN 019 MACC NU 3.980 RN/L 11526376 Q 1454 PSF 10 590

COEFFICIENTS

| ALP+A | N | P _H | L | D | A | AU | Y | YH | RM | AB | CP | PO | PNT |
|-------|--------|----------------|--------|--------|--------|--------|---------|---------|--------|---------|--------|--------|-----|
| 11.51 | 1.2279 | 32.735 | 0.7412 | 2.4933 | 2.2930 | 0.3017 | -0.0223 | -0.0518 | 0.0064 | -1.3913 | 06.766 | 173.27 | 106 |
| 11.54 | 1.5953 | 33.522 | 1.4946 | 0.6514 | 0.3364 | 0.3898 | -0.0226 | -0.0516 | 0.0093 | 0.2535 | 06.707 | 134.32 | 109 |
| 30.16 | 0.0344 | 30.032 | 0.0335 | 3.3074 | 0.3073 | 0.3549 | -0.0138 | -0.0613 | -0.026 | 0.3476 | 02.820 | 134.32 | 110 |

104/17/62

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | | | HSWT TEST 89 | | | | | | | | | | | | |
|---|---------|---------|---------------|---------|---------|--------------|---------|---------|------------|---------|----------|--------------|--------|-----|----------|--|--|--------------|--|--|--|--|--|--|
| RUN 020 | | | MACH NO 3.980 | | | RN/L 1170779 | | | Q 1451 PSF | | | T0 583 | | | 10/17/62 | | | COEFFICIENTS | | | | | | |
| ALPHA | N | PM | L | D | A | AU | Y | YM | RW | AB | CP | PO | PNT | | | | | | | | | | | |
| 00.26 | 0.0038 | 00.043 | 0.0022 | 0.36662 | 0.36661 | 0.4211 | -0.0034 | -0.0378 | 0.0003 | 0.0549 | 34.021 | 134.32 | 007 | | | | | | | | | | | |
| -11.65 | -2.1687 | -00.957 | -2.0476 | 0.8086 | 0.3783 | 0.4406 | 0.0656 | -0.0076 | -0.0077 | 0.0623 | 01.341 | 134.32 | 008 | | | | | | | | | | | |
| -11.68 | -2.1796 | -00.968 | -2.0575 | 0.8079 | 0.8134 | 0.3795 | 0.4416 | 0.0660 | -0.0222 | -0.0069 | 0.0623 | 01.341 | 134.32 | 009 | | | | | | | | | | |
| -11.58 | -2.1685 | -00.966 | -2.0677 | 0.8085 | 0.8085 | 0.3801 | 0.4410 | 0.0725 | 0.0136 | -0.0077 | 0.0608 | 01.353 | 134.32 | 010 | | | | | | | | | | |
| -11.58 | -2.1064 | -00.945 | -1.9922 | 0.7810 | 0.3765 | 0.4388 | 0.0645 | -0.0157 | -0.0083 | 0.0623 | 01.363 | 134.32 | 011 | | | | | | | | | | | |
| -10.85 | -2.0032 | -00.913 | -1.8971 | 0.7439 | 0.3734 | 0.4256 | 0.0624 | -0.0315 | -0.0075 | 0.0623 | 01.385 | 134.32 | 012 | | | | | | | | | | | |
| -10.38 | -1.8907 | -00.889 | -1.7936 | 0.7017 | 0.3671 | 0.4293 | 0.0495 | -0.0124 | -0.0078 | 0.0623 | 01.426 | 134.32 | 013 | | | | | | | | | | | |
| -09.94 | -1.7776 | -00.813 | -1.6867 | 0.6732 | 0.3721 | 0.4329 | 0.0543 | -0.0341 | -0.0071 | 0.0608 | 01.492 | 134.32 | 014 | | | | | | | | | | | |
| -09.46 | -1.6615 | -00.831 | -1.5782 | 0.6371 | 0.3690 | 0.4298 | 0.0518 | -0.0354 | -0.0072 | 0.0608 | 01.519 | 134.32 | 015 | | | | | | | | | | | |
| -08.99 | -1.5494 | -00.781 | -1.4729 | 0.6019 | 0.3674 | 0.4281 | 0.0559 | -0.0300 | -0.0071 | 0.0608 | 01.532 | 134.32 | 016 | | | | | | | | | | | |
| -08.51 | -1.4266 | -00.703 | -1.3569 | 0.5717 | 0.3646 | 0.4254 | 0.0597 | -0.0323 | -0.0074 | 0.0608 | 01.498 | 134.32 | 017 | | | | | | | | | | | |
| -08.04 | -1.3223 | -00.631 | -1.2582 | 0.5468 | 0.3655 | 0.4277 | 0.0269 | -0.0287 | -0.0069 | 0.0623 | 01.449 | 134.32 | 018 | | | | | | | | | | | |
| -07.58 | -1.2146 | -00.549 | -1.1559 | 0.5218 | 0.3648 | 0.4256 | 0.0118 | -0.0364 | -0.0070 | 0.0608 | 01.373 | 134.32 | 019 | | | | | | | | | | | |
| -07.12 | -1.1018 | -00.507 | -1.0483 | 0.4971 | 0.3633 | 0.4241 | 0.0224 | -0.0390 | -0.0066 | 0.0608 | 01.399 | 134.32 | 020 | | | | | | | | | | | |
| -06.69 | -1.0063 | -00.437 | -0.9568 | 0.4809 | 0.3661 | 0.4269 | 0.0179 | -0.0336 | -0.0055 | 0.0608 | 01.319 | 133.98 | 021 | | | | | | | | | | | |
| -06.24 | -0.9054 | -0.381 | -0.8602 | 0.4626 | 0.3665 | 0.4258 | 0.0168 | -0.0347 | -0.0055 | 0.0593 | 01.278 | 134.32 | 022 | | | | | | | | | | | |
| -05.76 | -0.8223 | -0.321 | -0.7818 | 0.4431 | 0.3625 | 0.4233 | 0.0196 | -0.0425 | -0.0057 | 0.0608 | 01.186 | 134.32 | 023 | | | | | | | | | | | |
| -05.33 | -0.7426 | -00.287 | -0.7058 | 0.4292 | 0.3618 | 0.4211 | 0.0151 | -0.0366 | -0.0046 | 0.0593 | 01.174 | 134.32 | 024 | | | | | | | | | | | |
| -04.82 | -0.6664 | -00.263 | -0.6152 | 0.4152 | 0.3604 | 0.4197 | 0.0145 | -0.0520 | -0.0038 | 0.0593 | 01.197 | 134.32 | 025 | | | | | | | | | | | |
| -04.34 | -0.6019 | -00.232 | -0.5728 | 0.4067 | 0.3621 | 0.4200 | 0.0068 | -0.0393 | -0.0042 | 0.0579 | 01.210 | 134.32 | 026 | | | | | | | | | | | |
| -03.87 | -0.5332 | -00.209 | -0.5075 | 0.3972 | 0.3620 | 0.4184 | 0.0061 | -0.0547 | -0.0024 | 0.0564 | 01.191 | 134.32 | 027 | | | | | | | | | | | |
| -03.47 | -0.4725 | -00.188 | -0.4499 | 0.3872 | 0.3593 | 0.4252 | 0.0187 | -0.0485 | -0.0029 | 0.0579 | 01.206 | 134.32 | 028 | | | | | | | | | | | |
| -03.01 | -0.4112 | -00.183 | -0.3918 | 0.3817 | 0.3606 | 0.4155 | 0.0048 | -0.0485 | -0.0020 | 0.0549 | 01.353 | 134.32 | 029 | | | | | | | | | | | |
| -02.52 | -0.3544 | -00.162 | -0.3382 | 0.3769 | 0.3616 | 0.4165 | 0.0046 | -0.0631 | -0.0020 | 0.0549 | 01.389 | 134.32 | 030 | | | | | | | | | | | |
| -02.09 | -0.3020 | -00.149 | -0.2886 | 0.3703 | 0.3595 | 0.4144 | 0.0081 | -0.0689 | -0.0021 | 0.0549 | 01.504 | 134.32 | 031 | | | | | | | | | | | |
| -01.69 | -0.2504 | -00.120 | -0.2396 | 0.3692 | 0.3620 | 0.4169 | 0.0064 | -0.0690 | -0.0023 | 0.0549 | 01.460 | 133.98 | 032 | | | | | | | | | | | |
| -01.22 | -0.2016 | -00.083 | -0.1939 | 0.3663 | 0.3661 | 0.4165 | 0.0010 | -0.0540 | -0.0015 | 0.0564 | 01.245 | 134.32 | 033 | | | | | | | | | | | |
| -00.79 | -0.1494 | -00.061 | -0.1443 | 0.3665 | 0.3645 | 0.4179 | 0.0043 | -0.0452 | -0.0013 | 0.0535 | 01.269 | 134.32 | 034 | | | | | | | | | | | |
| -00.34 | -0.1051 | -00.017 | -0.1029 | 0.3643 | 0.3638 | 0.4186 | 0.0043 | -0.0372 | -0.0003 | 0.0549 | 00.480 | 134.32 | 035 | | | | | | | | | | | |
| -00.10 | -0.0567 | -00.004 | -0.0574 | 0.3646 | 0.3647 | 0.4196 | 0.0041 | -0.0217 | -0.0007 | 0.0549 | 00.520 | 134.32 | 036 | | | | | | | | | | | |
| 00.53 | -0.0114 | 00.048 | -0.0149 | 0.3669 | 0.3669 | 0.4204 | 0.0035 | -0.0293 | -0.0003 | 0.0535 | -0.12693 | 134.32 | 037 | | | | | | | | | | | |
| 00.99 | 0.0418 | 00.093 | 0.0355 | 0.3667 | 0.3667 | 0.4210 | 0.0044 | -0.0460 | 0.0007 | 0.0549 | 01.750 | 134.32 | 038 | | | | | | | | | | | |
| 01.45 | 0.0873 | 00.128 | 0.0780 | 0.3672 | 0.3651 | 0.4200 | -0.0027 | -0.0389 | 0.0021 | 0.0549 | 04.667 | 134.32 | 039 | | | | | | | | | | | |
| 01.88 | 0.1367 | 00.156 | 0.1245 | 0.3719 | 0.3676 | 0.4210 | -0.0111 | -0.0331 | 0.0011 | 0.0535 | 03.669 | 134.32 | 040 | | | | | | | | | | | |
| 02.36 | 0.1863 | 00.184 | 0.1710 | 0.3754 | 0.3713 | 0.4215 | -0.0124 | -0.0484 | 0.0019 | 0.0535 | 02.994 | 134.32 | 041 | | | | | | | | | | | |
| 02.79 | 0.2396 | 00.204 | 0.2215 | 0.3773 | 0.3661 | 0.4210 | -0.0138 | -0.0490 | 0.0027 | 0.0549 | 02.583 | 134.32 | 042 | | | | | | | | | | | |
| 03.24 | 0.2967 | 00.216 | 0.2754 | 0.3852 | 0.3690 | 0.4225 | -0.0119 | -0.0414 | 0.0023 | 0.0535 | 02.215 | 134.32 | 043 | | | | | | | | | | | |
| 03.66 | 0.3537 | 00.237 | 0.3293 | 0.3725 | 0.3707 | 0.4256 | -0.0135 | -0.0345 | 0.0026 | 0.0549 | 02.038 | 134.32 | 044 | | | | | | | | | | | |
| 04.11 | 0.4175 | 00.242 | 0.3895 | 0.4024 | 0.3746 | 0.4279 | -0.0150 | -0.0367 | 0.0025 | 0.0535 | 01.764 | 134.32 | 045 | | | | | | | | | | | |
| 04.54 | 0.4794 | 00.265 | 0.4483 | 0.4107 | 0.3739 | 0.4289 | -0.0166 | -0.0354 | 0.0032 | 0.0549 | 01.678 | 134.32 | 046 | | | | | | | | | | | |
| 05.01 | 0.5516 | 00.297 | 0.5167 | 0.4225 | 0.3757 | 0.4306 | -0.0220 | -0.0366 | 0.0029 | 0.0549 | 01.638 | 134.32 | 047 | | | | | | | | | | | |
| 05.46 | 0.6277 | 00.322 | 0.5888 | 0.4315 | 0.3795 | 0.4346 | -0.0203 | -0.0439 | 0.0025 | 0.0549 | 01.560 | 134.32 | 048 | | | | | | | | | | | |
| 05.97 | 0.7055 | 00.371 | 0.6622 | 0.4514 | 0.3802 | 0.4351 | -0.0224 | -0.0448 | 0.0033 | 0.0549 | 01.604 | 134.32 | 049 | | | | | | | | | | | |
| 06.42 | 0.7918 | 00.417 | 0.7442 | 0.4675 | 0.3814 | 0.4378 | -0.0207 | -0.0381 | 0.0030 | 0.0564 | 01.559 | 134.32 | 050 | | | | | | | | | | | |
| 06.90 | 0.8700 | 00.478 | 0.8258 | 0.4865 | 0.3819 | 0.4383 | -0.0329 | -0.0269 | 0.0032 | 0.0564 | 01.653 | 134.32 | 051 | | | | | | | | | | | |
| 07.38 | 0.9833 | 00.535 | 0.9261 | 0.5650 | 0.3818 | 0.4397 | -0.0384 | -0.0291 | 0.0038 | 0.0579 | 01.651 | 134.32 | 052 | | | | | | | | | | | |
| 07.87 | 1.0962 | 00.601 | 1.0331 | 0.5312 | 0.3847 | 0.4511 | -0.0335 | -0.0316 | 0.0037 | 0.0564 | 01.666 | 134.32 | 053 | | | | | | | | | | | |
| 08.33 | 1.2082 | 00.652 | 1.1390 | 0.5603 | 0.3894 | 0.4443 | -0.0317 | -0.0317 | 0.0049 | 0.0549 | 01.639 | 134.32 | 054 | | | | | | | | | | | |
| 08.80 | 1.3210 | 00.727 | 1.2458 | 0.5872 | 0.3898 | 0.4462 | -0.0320 | -0.0321 | 0.0053 | 0.0564 | 01.673 | 134.32 | 055 | | | | | | | | | | | |
| 09.26 | 1.4341 | 00.794 | 1.3524 | 0.6171 | 0.3915 | 0.4479 | -0.0328 | -0.0409 | 0.0058 | 0.0564 | 01.682 | 134.32 | 056 | | | | | | | | | | | |
| C.66 | 1.5395 | 00.851 | 1.4516 | 0.6463 | 0.3935 | 0.4499 | -0.0441 | -0.0441 | 0.0074 | 0.0564 | 01.680 | 134.32 | 057 | | | | | | | | | | | |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSWT TEST 89 | | | |
|---|--------|----------------|--------|--------|----------|----------------|---------|----------------|----------------|----------------|----------------|----------------|----------------|
| RUN | 020 | MACH NO | 3.980 | RN/L | 11740779 | Q | 1451 | PSF | TO | 583 | | 10/17/62 | |
| COEFFICIENTS | | | | | | | | | | | | | |
| ALPHA | N | P _M | L | D | A | A _U | Y | Y _M | R _M | A _B | C _P | P _O | P _M |
| 09.98 | 1.6257 | 00.694 | 1.5320 | 0.6699 | 0.3941 | 0.4491 | -0.0344 | -0.0214 | 0.0072 | 0.0549 | 01.671 | 134.67 | 058 |
| 10.24 | 1.7093 | 00.914 | 1.6114 | 0.6990 | 0.3974 | 0.4538 | -0.0387 | -0.0153 | 0.0074 | 0.0564 | 01.624 | 134.32 | 059 |
| 10.50 | 1.7811 | 00.938 | 1.6783 | 0.7182 | 0.4003 | 0.4552 | -0.0427 | -0.0168 | 0.0089 | 0.0549 | 01.600 | 134.32 | 060 |
| 10.95 | 1.8822 | 00.950 | 1.7719 | 0.7499 | 0.3995 | 0.4564 | -0.0364 | -0.0164 | 0.0084 | 0.0549 | 01.533 | 134.67 | 061 |
| 11.28 | 1.9765 | 00.962 | 1.8594 | 0.7823 | 0.4035 | 0.4585 | -0.0408 | -0.0031 | 0.0090 | 0.0549 | 01.479 | 134.67 | 062 |
| 11.43 | 2.0218 | 00.991 | 1.9016 | 0.7970 | 0.4044 | 0.4594 | -0.0376 | -0.0176 | 0.0092 | 0.0549 | 01.473 | 134.67 | 063 |
| 00.19 | 0.0341 | 00.049 | 0.0329 | 0.3666 | 0.3685 | 0.4234 | -0.0041 | -0.0380 | 0.0003 | 0.0549 | 04.358 | 134.67 | 064 |

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89
 RUN 021 MACH NO 3.980 RNL 11359327 Q 1451 PSF TO 595

10/17/62

COEFFICIENTS

| ALPHA | N | PW | L | D | A | AU | V | YM | RH | AB | CP | PO | PNT |
|--------|---------|--------|---------|--------|--------|--------|---------|---------|--------|--------|---------|--------|-----|
| -11.64 | -2.1699 | -0.683 | -2.0470 | 0.8175 | 0.3876 | 0.4484 | 0.0950 | -0.2028 | 0.1342 | 0.0608 | 0.1236 | 133.98 | 008 |
| -11.40 | -2.1230 | -0.872 | -2.004 | 0.8001 | 0.3881 | 0.4475 | 0.0834 | -0.1897 | 0.1340 | 0.0593 | 0.1247 | 136.32 | 009 |
| -11.01 | -2.0405 | -0.854 | -1.9295 | 0.7672 | 0.3845 | 0.4385 | 0.0816 | -0.1899 | 0.1294 | 0.0608 | 0.1271 | 134.32 | 010 |
| -10.69 | -1.9522 | -0.827 | -1.8483 | 0.7362 | 0.3838 | 0.4431 | 0.0761 | -0.1693 | 0.1309 | 0.0593 | 0.1286 | 133.98 | 011 |
| -10.15 | -1.8281 | -0.808 | -1.7225 | 0.6963 | 0.3802 | 0.4410 | 0.0664 | -0.1489 | 0.1299 | 0.0608 | 0.1342 | 133.98 | 012 |
| -09.64 | -1.7041 | -0.772 | -1.6168 | 0.6574 | 0.3777 | 0.4380 | 0.0569 | -0.1508 | 0.1294 | 0.0608 | 0.1377 | 133.98 | 013 |
| -09.19 | -1.5885 | -0.713 | -1.5078 | 0.6265 | 0.3775 | 0.4369 | 0.0540 | -0.1299 | 0.1297 | 0.0593 | 0.1363 | 133.98 | 014 |
| -08.72 | -1.4689 | -0.661 | -1.3999 | 0.5946 | 0.3763 | 0.4356 | 0.0478 | -0.1166 | 0.1303 | 0.0593 | 0.1367 | 133.98 | 015 |
| -08.24 | -1.3648 | -0.596 | -1.2972 | 0.5548 | 0.3730 | 0.4338 | 0.0382 | -0.0898 | 0.1307 | 0.0608 | 0.1368 | 133.98 | 016 |
| -07.78 | -1.2495 | -0.536 | -1.1876 | 0.5376 | 0.3718 | 0.4322 | 0.0321 | -0.0911 | 0.1300 | 0.0608 | 0.1368 | 134.32 | 017 |
| -07.35 | -1.1416 | -0.470 | -1.0887 | 0.5147 | 0.3717 | 0.4310 | 0.0296 | -0.0775 | 0.1300 | 0.0593 | 0.1251 | 136.32 | 018 |
| -06.89 | -1.0358 | -0.413 | -0.9837 | 0.4935 | 0.3719 | 0.4282 | 0.0182 | -0.0800 | 0.1293 | 0.0593 | 0.1212 | 134.32 | 019 |
| -06.44 | -0.9418 | -0.350 | -0.8941 | 0.4752 | 0.3720 | 0.4213 | 0.0206 | -0.0653 | 0.1278 | 0.0593 | 0.1310 | 134.32 | 020 |
| -05.98 | -0.8547 | -0.314 | -0.8114 | 0.4585 | 0.3715 | 0.4208 | 0.0127 | -0.0597 | 0.1278 | 0.0593 | 0.1117 | 136.32 | 021 |
| -05.49 | -0.7793 | -0.229 | -0.705 | 0.4292 | 0.3683 | 0.4216 | 0.0122 | -0.0895 | 0.1261 | 0.0593 | 0.0965 | 134.32 | 022 |
| -05.04 | -0.6960 | -0.198 | -0.6098 | 0.4295 | 0.3698 | 0.4226 | 0.0147 | -0.0745 | 0.1254 | 0.0593 | 0.0000 | 134.32 | 023 |
| -04.56 | -0.6316 | -0.152 | -0.5218 | 0.4188 | 0.3697 | 0.4226 | 0.0141 | -0.0820 | 0.1261 | 0.0579 | 0.0953 | 136.32 | 024 |
| -04.08 | -0.5493 | -0.181 | -0.4216 | 0.4081 | 0.3699 | 0.4263 | 0.0135 | -0.0970 | 0.1235 | 0.0564 | 0.098 | 133.98 | 025 |
| -03.65 | -0.4948 | -0.168 | -0.4104 | 0.3980 | 0.3672 | 0.4236 | 0.0128 | -0.0820 | 0.1214 | 0.0564 | 0.093 | 134.32 | 026 |
| -03.20 | -0.4412 | -0.165 | -0.4201 | 0.3995 | 0.3665 | 0.4214 | 0.0159 | -0.1035 | 0.1212 | 0.0549 | 0.138 | 136.32 | 027 |
| -02.71 | -0.3880 | -0.154 | -0.3702 | 0.3839 | 0.3660 | 0.4219 | 0.0119 | -0.1041 | 0.1201 | 0.0549 | 0.1203 | 134.32 | 028 |
| -02.31 | -0.3235 | -0.148 | -0.3083 | 0.3823 | 0.3696 | 0.4230 | 0.0077 | -0.0976 | 0.1203 | 0.0535 | 0.1369 | 136.32 | 029 |
| -01.88 | -0.2144 | -0.129 | -0.2622 | 0.3746 | 0.3658 | 0.4207 | 0.0072 | -0.0980 | 0.1212 | 0.0549 | 0.1425 | 134.32 | 030 |
| -01.43 | -0.2211 | -0.100 | -0.2119 | 0.3743 | 0.3690 | 0.4224 | 0.0026 | -0.0848 | 0.1213 | 0.0535 | 0.1373 | 134.67 | 031 |
| -00.95 | -0.1768 | -0.065 | -0.1706 | 0.3735 | 0.3706 | 0.4241 | 0.0026 | -0.0777 | 0.1231 | 0.0535 | 0.1116 | 134.32 | 032 |
| -00.53 | -0.1279 | -0.037 | -0.1244 | 0.3701 | 0.4235 | 0.0020 | -0.0708 | 0.1236 | 0.0535 | 0.0886 | 136.32 | 033 | |
| -00.11 | -0.0790 | -0.010 | -0.0783 | 0.3702 | 0.3699 | 0.4246 | 0.0023 | -0.0203 | 0.1240 | 0.0549 | 0.1370 | 134.32 | 034 |
| 00.35 | -0.0266 | -0.027 | -0.0286 | 0.3722 | 0.3722 | 0.4259 | -0.0063 | -0.0439 | 0.1258 | 0.0535 | -03.165 | 136.32 | 035 |
| 00.80 | 0.0150 | 0.062 | 0.0098 | 0.3744 | 0.3742 | 0.4277 | -0.0111 | -0.0303 | 0.1249 | 0.0534 | 12.94 | 133.98 | 036 |
| 01.26 | 0.0641 | 0.090 | 0.0559 | 0.3752 | 0.3739 | 0.4273 | -0.0135 | -0.0309 | 0.1254 | 0.0535 | 0.267 | 134.32 | 037 |
| 01.72 | 0.1130 | 0.134 | 0.1018 | 0.3762 | 0.3730 | 0.4264 | -0.0139 | -0.0315 | 0.1244 | 0.0535 | 0.003 | 134.32 | 038 |
| 02.15 | 0.1654 | 0.154 | 0.1513 | 0.3792 | 0.3733 | 0.4267 | -0.0154 | -0.0172 | 0.1240 | 0.0535 | 0.0285 | 134.67 | 039 |
| 02.60 | 0.2184 | 0.174 | 0.2012 | 0.3838 | 0.3743 | 0.4278 | -0.0203 | -0.0180 | 0.1227 | 0.0549 | 0.246 | 134.67 | 040 |
| 03.02 | 0.2643 | 0.201 | 0.2441 | 0.3896 | 0.3762 | 0.4297 | -0.0216 | -0.0187 | 0.1238 | 0.0535 | 0.231 | 134.32 | 041 |
| 03.47 | 0.304 | 0.205 | 0.2910 | 0.3952 | 0.3765 | 0.4299 | -0.0265 | -0.0123 | 0.1245 | 0.0535 | 0.1940 | 134.67 | 042 |
| 03.90 | 0.3543 | 0.218 | 0.3543 | 0.4047 | 0.3797 | 0.4331 | -0.0245 | -0.0195 | 0.1250 | 0.0535 | 0.136 | 134.67 | 043 |
| 04.37 | 0.4453 | 0.232 | 0.4151 | 0.4124 | 0.3795 | 0.4346 | -0.0296 | -0.0208 | 0.1264 | 0.0549 | 0.1581 | 134.67 | 044 |
| 04.81 | 0.5109 | 0.246 | 0.4770 | 0.4239 | 0.3824 | 0.4313 | -0.0279 | -0.0209 | 0.1286 | 0.0549 | 0.1466 | 134.32 | 045 |
| 05.28 | 0.5831 | 0.270 | 0.5452 | 0.4360 | 0.3840 | 0.4389 | -0.0295 | -0.0365 | 0.1311 | 0.0549 | 0.109 | 134.32 | 046 |
| 05.75 | 0.6548 | 0.303 | 0.6130 | 0.4495 | 0.3860 | 0.4409 | -0.0250 | -0.0234 | 0.1326 | 0.0549 | 0.407 | 134.32 | 047 |
| 06.18 | 0.7418 | 0.331 | 0.6958 | 0.4647 | 0.3871 | 0.4335 | -0.0334 | -0.0239 | 0.1344 | 0.0564 | 0.354 | 134.32 | 048 |
| 06.66 | 0.8341 | 0.394 | 0.7830 | 0.4861 | 0.3920 | 0.4469 | -0.0318 | -0.0252 | 0.1359 | 0.0549 | 0.434 | 133.98 | 049 |
| 07.15 | 0.9262 | 0.447 | 0.8703 | 0.5038 | 0.3916 | 0.4480 | -0.0405 | -0.0282 | 0.1377 | 0.0564 | 0.466 | 134.32 | 050 |
| 07.63 | 1.0279 | 0.495 | 0.9667 | 0.5256 | 0.3926 | 0.4476 | -0.0425 | -0.0224 | 0.1381 | 0.0549 | 0.162 | 134.32 | 051 |
| 08.09 | 1.1408 | 0.545 | 1.0741 | 0.5499 | 0.3933 | 0.4497 | -0.0019 | -0.019 | 0.1384 | 0.0564 | 0.151 | 134.32 | 052 |
| 08.58 | 1.2575 | 0.613 | 1.1845 | 0.5783 | 0.3951 | 0.4515 | -0.0492 | -0.0234 | 0.1326 | 0.0549 | 0.189 | 134.32 | 053 |
| 09.04 | 1.3665 | 0.687 | 1.2869 | 0.6080 | 0.3982 | 0.4532 | -0.0536 | -0.0230 | 0.1399 | 0.0564 | 0.180 | 134.32 | 054 |
| 09.47 | 1.4719 | 0.735 | 1.3865 | 0.6344 | 0.3976 | 0.4560 | -0.0578 | -0.0355 | 0.1411 | 0.0564 | 0.156 | 134.67 | 055 |
| 09.82 | 1.5696 | 0.773 | 1.4782 | 0.6414 | 0.4014 | 0.4563 | -0.0628 | -0.0398 | 0.1408 | 0.0549 | 0.1477 | 134.67 | 056 |
| 10.11 | 1.6490 | 0.809 | 1.5525 | 0.6872 | 0.4041 | 0.4590 | -0.0632 | -0.0700 | 0.1408 | 0.0549 | 0.190 | 134.32 | 057 |
| 10.39 | 1.7281 | 0.826 | 1.6268 | 0.7097 | 0.4045 | 0.4595 | -0.0641 | -0.0986 | 0.1408 | 0.0549 | 0.1453 | 134.32 | 058 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSWT TEST 89 | | | |
|---|---------------|---------------|--------|------------|--------|--------|---------|---------|--------|--------------|--------|--------|-----|
| RUN 021 | MACH NO 3.980 | RN/L 11359327 | Q 1451 | PSF TO 595 | | | | | | | | | |
| COEFFICIENTS | | | | | | | | | | | | | |
| ALPHA | N | PM | L | O | A | AU | V | YM | RW | AB | CP | PO | |
| 10.76 | 1.8148 | 00.854 | 1.7071 | 0.7377 | 0.4059 | 0.4594 | -0.0684 | 0.1188 | 0.1428 | 0.0535 | 01.430 | 134.32 | 059 |
| 11.17 | 1.9447 | 00.870 | 1.8091 | 0.7734 | 0.4083 | 0.4632 | -0.0727 | 0.1172 | 0.1443 | 0.0549 | 01.373 | 134.32 | 060 |
| 11.35 | 1.9664 | 00.885 | 1.8761 | 0.7971 | 0.4121 | 0.4656 | -0.0666 | 0.1226 | 0.1447 | 0.0535 | 01.347 | 134.32 | 061 |
| 11.39 | 2.0532 | 00.891 | 1.9039 | 0.8041 | 0.4122 | 0.4557 | -0.0667 | 0.1321 | 0.1443 | 0.0535 | 01.336 | 134.67 | 062 |
| 11.48 | 2.0593 | 00.897 | 1.9262 | 0.8119 | 0.4123 | 0.4673 | -0.0741 | 0.1556 | 0.1451 | 0.0549 | 01.330 | 134.32 | 063 |
| 11.51 | 2.0532 | 00.898 | 1.9296 | 0.8149 | 0.4136 | 0.4671 | -0.0776 | 0.1375 | 0.1454 | 0.0535 | 01.329 | 134.32 | 064 |
| 00.19 | 0.0418 | 00.034 | 0.0406 | 0.3757 | 0.3756 | 0.4290 | -0.0075 | -0.0367 | 0.1250 | 0.0535 | 02.466 | 134.67 | 065 |

CVO HIGH SPEED WIND TUNNEL TEST NUMBER 89
HSNT TEST 89

RUN 022 MACH NO 4.970 RNL 16456655 Q 1465 P9F TO 594

10/23/62

COEFFICIENTS

| ALPHA | N | PN | L | D | A | AU | V | YN | RN | AB | CP | PO | PMT |
|--------|---------|----------|---------|--------|--------|--------|---------|---------|--------|--------|--------|--------|-----|
| 00-.27 | 0.0596 | 00-.180 | 0.0579 | 0.3632 | 0.3629 | 0.4048 | -0.0013 | 0.1853 | 0.1065 | 0.0419 | 0.174 | 301.33 | 006 |
| -11.35 | -1.9894 | -CC 937 | -1.8765 | 0.7056 | 0.3766 | 0.4214 | 0.0486 | -0.0564 | 0.1415 | 0.0448 | 0.1431 | 300.63 | 007 |
| -10.91 | -1.9005 | -00-.928 | -1.7956 | 0.7251 | 0.3726 | 0.4176 | 0.1411 | -0.2425 | 0.1330 | 0.0448 | 0.1483 | 300.98 | 008 |
| -10.44 | -1.8085 | -00-.883 | -1.7114 | 0.6921 | 0.3706 | 0.4159 | 0.1390 | -0.2289 | 0.1320 | 0.0448 | 0.1483 | 300.98 | 009 |
| -10.00 | -1.7700 | -00-.878 | -1.6202 | 0.6593 | 0.3680 | 0.4120 | 0.1304 | -0.2163 | 0.1307 | 0.0448 | 0.1560 | 300.63 | 010 |
| -09.59 | -1.5570 | -00-.861 | -1.5142 | 0.6222 | 0.3652 | 0.4060 | 0.1105 | -0.1688 | 0.1289 | 0.0448 | 0.1638 | 300.98 | 011 |
| -09.06 | -1.4984 | -00-.848 | -1.4224 | 0.5950 | 0.3635 | 0.4069 | 0.1052 | -0.1691 | 0.1282 | 0.0448 | 0.1720 | 300.63 | 012 |
| -08.65 | -1.4025 | -00-.819 | -1.3320 | 0.5693 | 0.3625 | 0.4073 | 0.0993 | -0.1206 | 0.1270 | 0.0448 | 0.1773 | 300.63 | 013 |
| -08.16 | -1.3095 | -00-.815 | -1.2450 | 0.5429 | 0.3606 | 0.4054 | 0.0811 | -0.0939 | 0.1263 | 0.0448 | 0.1890 | 300.63 | 014 |
| -07.71 | -1.2170 | -00-.778 | -1.1577 | 0.5200 | 0.3599 | 0.4047 | 0.0747 | -0.0822 | 0.1255 | 0.0448 | 0.1941 | 300.63 | 015 |
| -07.26 | -1.1256 | -00-.741 | -1.0713 | 0.4987 | 0.3593 | 0.4027 | 0.0732 | -0.0910 | 0.1277 | 0.0434 | 0.2001 | 300.29 | 016 |
| -06.84 | -1.0403 | -00-.688 | -0.9898 | 0.4832 | 0.3619 | 0.4053 | 0.0604 | -0.0352 | 0.1251 | 0.0433 | 0.2011 | 300.43 | 017 |
| -06.34 | -0.9431 | -00-.650 | -0.8976 | 0.4621 | 0.3602 | 0.4036 | 0.0621 | -0.0027 | 0.1243 | 0.0433 | 0.2094 | 300.63 | 018 |
| -05.91 | -0.8571 | -00-.606 | -0.8153 | 0.4481 | 0.3617 | 0.4050 | 0.0380 | -0.0041 | 0.1232 | 0.0433 | 0.2148 | 300.63 | 019 |
| -05.46 | -0.7672 | -00-.578 | -0.7293 | 0.4333 | 0.3620 | 0.4053 | 0.0317 | -0.0104 | 0.1196 | 0.0433 | 0.2289 | 300.63 | 020 |
| -04.97 | -0.6883 | -00-.544 | -0.6547 | 0.4159 | 0.3576 | 0.4009 | 0.0368 | -0.0122 | 0.1182 | 0.0433 | 0.2402 | 300.63 | 021 |
| -04.49 | -0.6169 | -00-.495 | -0.5869 | 0.4068 | 0.3596 | 0.4030 | 0.0359 | 0.0093 | 0.1150 | 0.0433 | 0.2436 | 300.98 | 022 |
| -04.04 | -0.5501 | -00-.464 | -0.5231 | 0.4014 | 0.3635 | 0.4054 | 0.0281 | -0.0002 | 0.1133 | 0.0419 | 0.2560 | 300.63 | 023 |
| -03.58 | -0.4903 | -00-.412 | -0.4667 | 0.3931 | 0.3632 | 0.4051 | 0.0251 | -0.0085 | 0.1117 | 0.0419 | 0.2584 | 300.63 | 024 |
| -03.09 | -0.4227 | -00-.386 | -0.4026 | 0.3836 | 0.3616 | 0.4035 | 0.0317 | -0.0296 | 0.1099 | 0.0419 | 0.2772 | 300.63 | 025 |
| -02.65 | -0.3591 | -00-.347 | -0.3420 | 0.3740 | 0.3619 | 0.4038 | 0.0215 | -0.0232 | 0.1083 | 0.0419 | 0.2932 | 300.63 | 026 |
| -02.19 | -0.3026 | -00-.317 | -0.2885 | 0.3728 | 0.3615 | 0.4019 | 0.0229 | -0.0157 | 0.1075 | 0.0404 | 0.3187 | 300.63 | 027 |
| -01.76 | -0.2468 | -00-.247 | -0.2356 | 0.3687 | 0.3613 | 0.4032 | 0.0183 | -0.0089 | 0.1077 | 0.0419 | 0.3366 | 300.63 | 028 |
| -01.33 | -0.1908 | -00-.184 | -0.1822 | 0.3699 | 0.3616 | 0.4061 | 0.0139 | -0.0002 | 0.1091 | 0.0404 | 0.3932 | 300.63 | 029 |
| -00.89 | -0.1460 | -00-.116 | -0.1406 | 0.3663 | 0.3642 | 0.4066 | 0.0130 | -0.0168 | 0.1103 | 0.0404 | 0.4049 | 300.63 | 030 |
| -00.42 | -0.0971 | -00-.055 | -0.0951 | 0.3598 | 0.3591 | 0.3995 | 0.0050 | -0.0033 | 0.1108 | 0.0404 | 0.1708 | 300.29 | 031 |
| -00.04 | -0.0338 | -00-.009 | -0.0341 | 0.3420 | 0.3582 | 0.3987 | 0.0074 | -0.0177 | 0.1115 | 0.0404 | 0.1225 | 300.63 | 032 |
| 00-.47 | 0.0101 | 00-.093 | 0.0072 | 0.3592 | 0.3591 | 0.3999 | -0.0001 | -0.0125 | 0.1119 | 0.0404 | 0.2849 | 300.29 | 033 |
| 00-.90 | 0.0613 | 00-.157 | 0.0556 | 0.3684 | 0.3635 | 0.4032 | 0.0183 | -0.0015 | 0.1110 | 0.0404 | 0.3036 | 300.63 | 034 |
| 01.37 | -0.1093 | -00-.118 | -0.1006 | 0.3695 | 0.3670 | 0.4060 | 0.0130 | -0.0036 | 0.1091 | 0.0404 | 0.3932 | 300.63 | 035 |
| 01.83 | -0.1610 | -00-.289 | -0.1493 | 0.3694 | 0.3644 | 0.4064 | 0.0064 | -0.0266 | 0.1108 | 0.0404 | 0.4045 | 300.63 | 036 |
| 02.32 | -0.2166 | -00-.335 | -0.2016 | 0.3751 | 0.3667 | 0.4057 | 0.0107 | -0.0320 | 0.1111 | 0.0404 | 0.3930 | 300.63 | 037 |
| 02.74 | -0.2687 | -00-.565 | -0.2509 | 0.3775 | 0.3656 | 0.4064 | -0.0125 | -0.0125 | 0.1119 | 0.0404 | 0.3200 | 300.29 | 038 |
| 03.20 | -0.3278 | -00-.411 | -0.3069 | 0.3837 | 0.3660 | 0.4064 | -0.0125 | -0.0125 | 0.1133 | 0.0404 | 0.3806 | 300.63 | 039 |
| 03.62 | -0.3914 | -00-.442 | -0.3674 | 0.3927 | 0.3687 | 0.4091 | -0.0131 | -0.0281 | 0.1154 | 0.0404 | 0.3430 | 300.63 | 040 |
| 04.08 | -0.4912 | -00-.72 | -0.4237 | 0.4008 | 0.3697 | 0.4101 | -0.0103 | -0.0129 | 0.1165 | 0.0404 | 0.3179 | 300.63 | 041 |
| 04.56 | -0.5218 | -00-.505 | -0.4908 | 0.4101 | 0.3697 | 0.4102 | -0.0115 | -0.0262 | 0.1173 | 0.0404 | 0.2941 | 300.63 | 042 |
| 05.01 | -0.5963 | -00-.530 | -0.5616 | 0.4227 | 0.3721 | 0.4125 | -0.0129 | -0.0469 | 0.1195 | 0.0404 | 0.2702 | 300.63 | 043 |
| 05.43 | -0.6749 | -00-.565 | -0.6369 | 0.4316 | 0.3694 | 0.4113 | -0.0139 | -0.0310 | 0.1203 | 0.0404 | 0.2543 | 300.63 | 044 |
| 05.93 | -0.7608 | -00-.511 | -0.7059 | 0.4468 | 0.3718 | 0.4137 | -0.0125 | -0.0514 | 0.1218 | 0.0404 | 0.2336 | 300.63 | 045 |
| 06.39 | -0.8477 | -00-.620 | -0.8008 | 0.4668 | 0.3749 | 0.4153 | -0.0245 | -0.0640 | 0.1239 | 0.0404 | 0.2223 | 300.29 | 046 |
| 06.87 | -0.9491 | -00-.633 | -0.8974 | 0.4859 | 0.3752 | 0.4156 | -0.0213 | -0.0853 | 0.1242 | 0.0404 | 0.2028 | 300.29 | 047 |
| 07.34 | -1.0315 | -00-.676 | -0.9752 | 0.5031 | 0.3743 | 0.4162 | -0.0262 | -0.1173 | 0.1244 | 0.0404 | 0.1991 | 300.29 | 048 |
| 07.82 | -1.1313 | -00-.705 | -1.0694 | 0.5276 | 0.3771 | 0.4176 | -0.0311 | -0.1130 | 0.1249 | 0.0404 | 0.1893 | 300.63 | 049 |
| 08.28 | -1.2325 | -00-.718 | -1.1653 | 0.5512 | 0.3787 | 0.4181 | -0.0319 | -0.1241 | 0.1256 | 0.0404 | 0.1770 | 300.63 | 050 |
| 08.76 | -1.3352 | -00-.740 | -1.2623 | 0.5758 | 0.3718 | 0.4188 | -0.0497 | -0.1218 | 0.1259 | 0.0404 | 0.1685 | 300.29 | 051 |
| 09.23 | -1.4426 | -00-.746 | -1.3624 | 0.6098 | 0.3833 | 0.4237 | -0.0462 | -0.1282 | 0.1253 | 0.0404 | 0.1571 | 300.63 | 052 |
| 09.60 | -1.5362 | -00-.758 | -1.4501 | 0.6382 | 0.3873 | 0.4278 | -0.0444 | -0.2046 | 0.1301 | 0.0404 | 0.1498 | 300.63 | 053 |
| 09.92 | -1.6222 | -00-.781 | -1.5311 | 0.6645 | 0.3909 | 0.4311 | -0.0464 | -0.2041 | 0.1319 | 0.0404 | 0.1437 | 300.63 | 054 |
| 10.20 | -1.6940 | -00-.783 | -1.5972 | 0.6889 | 0.3953 | 0.4343 | -0.0464 | -0.2034 | 0.1345 | 0.0404 | 0.1404 | 300.63 | 055 |
| 10.48 | -1.7639 | -00-.781 | -1.6628 | 0.7083 | 0.3939 | 0.4344 | -0.0464 | -0.1370 | 0.1346 | 0.0404 | 0.1370 | 300.29 | 056 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSWT TEST 89 | | | | |
|---|--------|---------|--------|--------|----------|--------|---------|---------|--------|--------------|----------|--------|-----|--|
| RUN | 022 | MACH NO | 4.970 | RN/L | 16456655 | Q | 1465 | PJF | TO | 594 | 10/23/62 | | | |
| ALPHA | N | PW | L | D | A | AU | V | VM | RH | AB | CP | P0 | PNT | |
| 10.82 | 1.8442 | 00.790 | 1.7368 | 0.7364 | 0.3972 | 0.4376 | -0.0556 | 0.2376 | 0.1388 | 0.0404 | 01.301 | 300.43 | 057 | |
| 11.25 | 1.9319 | 00.810 | 1.8217 | 0.7753 | 0.4050 | 0.4425 | -0.0535 | 0.2446 | 0.1421 | 0.0375 | 01.269 | 300.63 | 058 | |
| 11.40 | 1.9915 | 00.788 | 1.8750 | 0.7918 | 0.4055 | 0.4445 | -0.0577 | 0.2885 | 0.1436 | 0.0390 | 01.201 | 300.63 | 059 | |
| 11.47 | 2.0259 | 00.803 | 1.9030 | 0.8022 | 0.4079 | 0.4469 | -0.0549 | 0.2515 | 0.1442 | 0.0390 | 01.205 | 300.63 | 060 | |
| 11.49 | 2.0386 | 00.798 | 1.9152 | 0.8085 | 0.4107 | 0.4482 | -0.0551 | 0.2737 | 0.1449 | 0.0375 | 01.190 | 300.29 | 061 | |
| 11.50 | 2.0432 | 00.799 | 1.9211 | 0.8063 | 0.4072 | 0.4461 | -0.0515 | 0.2594 | 0.1449 | 0.0390 | 01.188 | 300.63 | 062 | |
| 11.53 | 2.0609 | 00.770 | 1.9381 | 0.8103 | 0.4068 | 0.4463 | -0.0553 | 0.2740 | 0.1448 | 0.0375 | 01.135 | 300.29 | 063 | |
| 11.45 | 2.0639 | 00.962 | 1.9406 | 0.8155 | 0.4142 | 0.4445 | -0.0345 | 0.2221 | 0.1538 | 0.0303 | 01.416 | 300.33 | 064 | |
| 00.11 | 0.0371 | 00.050 | 0.0370 | 0.3591 | 0.3590 | 0.3995 | -0.0108 | -0.0430 | 0.1147 | 0.0404 | 03.996 | 300.29 | 065 | |

CVO HIGH SPEED WIND TUNNEL TEST NUMBER 89
RUN 023 MACH NO 4.970 RNL 16106908 Q 1465 PSF TD 602

HSUT TEST 89

10/23/62

COEFFICIENTS

| | R | PX | PY | PZ | A | D | AU | AU | Y | YN | RM | AB | CP | PO | PNT |
|--------|---------|---------|---------|--------|--------|--------|---------|---------|---------|----------|---------|---------|-----|----|-----|
| ALPHA | | | | | | | | | | | | | | | |
| 00-029 | 0.0486 | 0.0-044 | 0.0467 | 0.3636 | 0.3634 | 0.4067 | 0.197 | -0.0480 | 0.0016 | 0.0-033 | 0.02728 | 300-053 | 006 | | |
| -11.43 | -1.9273 | -00.942 | -1.8184 | 0.7319 | 0.3570 | 0.4018 | 0.090 | -0.0081 | 0.0019 | 0.0-048 | 01.484 | 300-63 | 007 | | |
| -11.19 | -1.8938 | -00.951 | -1.7900 | 0.7104 | 0.3495 | 0.3973 | 0.0857 | -0.0195 | 0.0012 | 0.0-077 | 01.525 | 300-63 | 008 | | |
| -10.80 | -1.8181 | -00.926 | -1.7202 | 0.6851 | 0.3659 | 0.3968 | 0.0808 | -0.0112 | 0.0014 | 0.0-063 | 01.548 | 300-29 | 009 | | |
| -10.37 | -1.7326 | -00.916 | -1.6614 | 0.6559 | 0.3498 | 0.3961 | 0.0795 | -0.0106 | 0.0001 | 0.0-063 | 01.606 | 300-29 | 010 | | |
| -09.50 | -1.6358 | -00.911 | -1.5516 | 0.6241 | 0.3479 | 0.3942 | 0.0668 | -0.0166 | -0.0008 | 0.0-063 | 01.693 | 300-29 | 011 | | |
| -09.46 | -1.5300 | -00.916 | -1.4528 | 0.5895 | 0.3472 | 0.3889 | 0.0642 | -0.0164 | -0.0010 | 0.0-063 | 01.779 | 300-63 | 012 | | |
| -09.00 | -1.4254 | -00.906 | -1.3546 | 0.5596 | 0.3409 | 0.3857 | 0.0632 | -0.0092 | -0.0015 | 0.0-048 | 01.932 | 300-63 | 013 | | |
| -08.53 | -1.3368 | -00.810 | -1.2718 | 0.5330 | 0.3384 | 0.3832 | 0.0532 | -0.0148 | -0.0016 | 0.0-048 | 01.977 | 300-63 | 014 | | |
| -08.07 | -1.2377 | -00.866 | -1.1778 | 0.5092 | 0.3387 | 0.3849 | 0.0533 | -0.0001 | -0.0018 | 0.0-063 | 02.125 | 300-29 | 015 | | |
| -07.65 | -1.1437 | -00.836 | -1.0886 | 0.4889 | 0.3376 | 0.3839 | 0.0528 | -0.0162 | -0.0025 | 0.0-063 | 02.221 | 300-63 | 016 | | |
| -07.17 | -1.0592 | -00.776 | -1.0085 | 0.4687 | 0.3391 | 0.3839 | 0.0413 | -0.0229 | -0.0016 | 0.0-048 | 02.225 | 300-63 | 017 | | |
| -06.75 | -0.9701 | -00.731 | -0.9237 | 0.4498 | 0.3382 | 0.3830 | 0.0414 | -0.0460 | -0.0014 | 0.0-048 | 02.290 | 300-63 | 018 | | |
| -06.30 | -0.8836 | -00.578 | -0.8412 | 0.4325 | 0.3376 | 0.3839 | 0.0344 | -0.0257 | -0.0023 | 0.0-062 | 02.331 | 300-98 | 019 | | |
| -05.82 | -0.7933 | -00.660 | -0.7567 | 0.4186 | 0.3397 | 0.3860 | 0.0335 | -0.0404 | -0.0015 | 0.0-063 | 02.521 | 300-29 | 020 | | |
| -05.34 | -0.7209 | -00.610 | -0.6861 | 0.4051 | 0.3401 | 0.3849 | 0.0318 | -0.0404 | -0.0021 | 0.0-048 | 02.529 | 300-29 | 021 | | |
| -04.86 | -0.6413 | -00.586 | -0.6102 | 0.3926 | 0.3405 | 0.3853 | 0.0316 | -0.0407 | -0.0015 | 0.0-048 | 02.746 | 300-63 | 022 | | |
| -04.40 | -0.5698 | -00.543 | -0.5421 | 0.3818 | 0.3390 | 0.3838 | 0.0311 | -0.0403 | -0.0013 | 0.0-048 | 02.894 | 300-98 | 023 | | |
| -03.93 | -0.4997 | -00.494 | -0.4753 | 0.3715 | 0.3381 | 0.3829 | 0.0312 | -0.0479 | -0.0009 | 0.0-048 | 03.006 | 300-63 | 024 | | |
| -03.49 | -0.4466 | -00.449 | -0.4229 | 0.3677 | 0.3413 | 0.3832 | 0.0327 | -0.0482 | -0.0018 | 0.0-048 | 03.071 | 300-29 | 025 | | |
| -03.00 | -0.3768 | -00.409 | -0.3585 | 0.3600 | 0.3407 | 0.3826 | 0.0285 | -0.0564 | -0.0016 | 0.0-049 | 03.297 | 300-63 | 026 | | |
| -02.57 | -0.3243 | -00.313 | -0.2583 | 0.3517 | 0.3406 | 0.3824 | 0.0286 | -0.0531 | -0.0011 | 0.0-049 | 03.493 | 300-63 | 027 | | |
| -02.13 | -0.2712 | -00.231 | -0.2583 | 0.3514 | 0.3415 | 0.3820 | 0.0286 | -0.0520 | -0.0005 | 0.0-048 | 03.593 | 300-63 | 028 | | |
| -01.67 | -0.2188 | -00.261 | -0.2087 | 0.3479 | 0.3417 | 0.3821 | 0.0283 | -0.0519 | -0.0001 | 0.0-048 | 03.619 | 300-29 | 029 | | |
| -01.22 | -0.1576 | -00.215 | -0.1503 | 0.3442 | 0.3410 | 0.3828 | 0.0286 | -0.0555 | -0.0003 | 0.0-048 | 04.144 | 300-63 | 030 | | |
| -00.77 | -0.1163 | -00.114 | -0.1116 | 0.3462 | 0.3447 | 0.3851 | 0.0281 | -0.0535 | -0.0003 | 0.0-048 | 03.885 | 300-63 | 031 | | |
| -00.34 | -0.0630 | -00.113 | -0.0610 | 0.3447 | 0.3444 | 0.3848 | 0.0281 | -0.0449 | -0.0009 | 0.0-048 | 05.457 | 300-63 | 032 | | |
| 00.11 | -0.0215 | -00.047 | -0.0221 | 0.3447 | 0.3447 | 0.3852 | 0.0282 | -0.0541 | -0.0013 | 0.0-048 | 06.661 | 300-63 | 033 | | |
| 00.57 | -0.0262 | -00.014 | -0.0228 | 0.3427 | 0.3424 | 0.3829 | 0.0189 | -0.0625 | -0.0024 | 0.0-048 | 06.615 | 300-29 | 034 | | |
| 01.03 | -0.0813 | -00.085 | -0.0751 | 0.3446 | 0.3427 | 0.3837 | 0.0182 | -0.0630 | -0.0025 | 0.0-048 | 03.604 | 300-29 | 035 | | |
| 01.47 | -0.1364 | -00.165 | -0.1275 | 0.3490 | 0.3456 | 0.3846 | 0.0189 | -0.0571 | -0.0037 | 0.0-0390 | 03.672 | 300-29 | 036 | | |
| 01.91 | -0.1801 | -00.233 | -0.1685 | 0.3514 | 0.3456 | 0.3846 | 0.0185 | -0.0577 | -0.0046 | 0.0-0390 | 03.937 | 300-63 | 037 | | |
| 02.39 | -0.2317 | -00.219 | -0.2171 | 0.3541 | 0.3448 | 0.3852 | 0.0185 | -0.0584 | -0.0044 | 0.0-0390 | 03.655 | 300-63 | 038 | | |
| 02.82 | -0.2872 | -00.317 | -0.2698 | 0.3602 | 0.3465 | 0.3855 | 0.0086 | -0.0541 | -0.0058 | 0.0-0390 | 03.354 | 300-29 | 039 | | |
| 03.27 | -0.3501 | -0.356 | -0.3295 | 0.3699 | 0.3395 | 0.3893 | 0.0036 | -0.0583 | -0.0064 | 0.0-0390 | 03.090 | 300-63 | 040 | | |
| 03.70 | -0.4087 | -0.386 | -0.3851 | 0.3774 | 0.3318 | 0.3908 | 0.0018 | -0.0365 | -0.0060 | 0.0-0390 | 02.870 | 300-29 | 041 | | |
| 04.15 | -0.4724 | -0.418 | -0.4457 | 0.3851 | 0.3518 | 0.3908 | -0.0031 | -0.0518 | -0.0066 | 0.0-0390 | 02.685 | 300-63 | 042 | | |
| 04.61 | -0.5351 | -0.517 | -0.5050 | 0.3939 | 0.3520 | 0.3925 | -0.0018 | -0.0361 | -0.0062 | 0.0-0404 | 02.596 | 300-63 | 043 | | |
| 05.09 | -0.6086 | -0.499 | -0.5748 | 0.4061 | 0.3535 | 0.3939 | -0.0015 | -0.0236 | -0.0064 | 0.0-0404 | 02.490 | 300-98 | 044 | | |
| 05.54 | -0.6910 | -0.535 | -0.6535 | 0.4199 | 0.3549 | 0.3953 | -0.0093 | -0.0159 | -0.0061 | 0.0-0404 | 02.350 | 300-63 | 045 | | |
| 06.02 | -0.7774 | -0.517 | -0.7358 | 0.4357 | 0.3562 | 0.3966 | -0.0115 | -0.0089 | -0.0065 | 0.0-0404 | 02.233 | 300-29 | 046 | | |
| 06.49 | -0.8586 | -0.605 | -0.8127 | 0.4524 | 0.3576 | 0.3981 | -0.0167 | -0.0101 | -0.0062 | 0.0-0404 | 02.142 | 300-63 | 047 | | |
| 06.95 | -0.9568 | -0.634 | -0.9042 | 0.4728 | 0.3600 | 0.4004 | -0.0188 | -0.0107 | -0.0060 | 0.0-0404 | 02.018 | 300-98 | 048 | | |
| 07.43 | -1.0403 | -0.678 | -0.9850 | 0.4920 | 0.3615 | 0.4010 | -0.0187 | -0.0040 | -0.0046 | 0.0-0404 | 01.980 | 300-98 | 049 | | |
| 07.91 | -1.1374 | -0.708 | -1.0770 | 0.5131 | 0.3601 | 0.4020 | -0.0183 | -0.0040 | -0.0046 | 0.0-0404 | 01.890 | 300-98 | 050 | | |
| 08.38 | -1.2356 | -0.710 | -1.1698 | 0.5394 | 0.3631 | 0.4035 | -0.0193 | -0.0043 | -0.0053 | 0.0-0404 | 01.794 | 300-63 | 051 | | |
| 08.84 | -1.3407 | -0.736 | -1.2685 | 0.5682 | 0.3666 | 0.4056 | -0.0206 | -0.0172 | -0.0058 | 0.0-0404 | 01.668 | 300-63 | 052 | | |
| 09.29 | -1.4344 | -0.756 | -1.3556 | 0.5926 | 0.3660 | 0.4064 | -0.0145 | -0.0037 | -0.0057 | 0.0-0404 | 01.602 | 300-63 | 053 | | |
| 09.66 | -1.5282 | -0.771 | -1.4446 | 0.6201 | 0.3690 | 0.4094 | -0.0153 | -0.0188 | -0.0074 | 0.0-0404 | 01.544 | 300-63 | 054 | | |
| 10.07 | -1.6219 | -0.772 | -1.5333 | 0.6451 | 0.3699 | 0.4103 | -0.0164 | -0.0068 | -0.0066 | 0.0-0404 | 01.447 | 300-63 | 055 | | |
| 10.25 | -1.6798 | -0.810 | -1.5868 | 0.6650 | 0.3719 | 0.4109 | -0.0168 | -0.0123 | -0.0085 | 0.0-0390 | 01.466 | 300-29 | 056 | | |

| CVC HIGH SPEED M1.0 TUNNEL TEST NUMBER 89 | | | | | | | | | | HSNT TEST 89 | | | | |
|---|--------|----------------|--------|-------------------|----------|----------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|--|
| RUN | 023 | MACH NO | 4.970 | R ² /L | 1610690A | L | 1465 PSF | T0 | 602 | | | | | |
| COEFFICIENTS | | | | | | | | | | | | | | |
| ALPHA | N | P _M | L | P | A | A _U | V | V _M | R _M | A _B | C _P | P _O | P _M | |
| 10.51 | 1.7552 | 0.785 | 1.6575 | 0.6879 | 0.3741 | 0.4145 | -0.0117 | -0.0049 | 0.0086 | 0.0404 | 01.359 | 300.29 | 057 | |
| 10.93 | 1.8430 | 0.812 | 1.7376 | 0.7218 | 0.3193 | 0.4183 | -0.0168 | -0.0128 | 0.0101 | 0.0390 | 01.339 | 300.63 | 058 | |
| 11.20 | 1.9314 | 0.823 | 1.8192 | 0.7533 | 0.3830 | 0.4220 | -0.0125 | -0.0191 | 0.0100 | 0.0390 | 01.295 | 300.29 | 059 | |
| 11.37 | 1.9778 | 0.825 | 1.8626 | 0.7699 | 0.3874 | 0.4249 | -0.0200 | -0.0014 | 0.0099 | 0.0375 | 01.267 | 300.63 | 060 | |
| 11.38 | 1.9967 | 0.829 | 1.8911 | 0.7729 | 0.3665 | 0.4240 | -0.0167 | -0.0052 | 0.0097 | 0.0375 | 01.262 | 300.63 | 061 | |
| 11.46 | 2.0045 | 0.814 | 1.8880 | 0.7754 | 0.3848 | 0.4238 | -0.0037 | -0.0257 | 0.0097 | 0.0390 | 01.233 | 300.63 | 062 | |
| 11.44 | 2.0115 | 0.832 | 1.8948 | 0.7784 | 0.3871 | 0.4261 | -0.0135 | -0.0026 | 0.0095 | 0.0390 | 01.257 | 300.63 | 063 | |
| 11.425 | 1.9915 | 0.837 | 1.8773 | 0.7703 | 0.3894 | 0.4283 | -0.0166 | -0.0053 | 0.0098 | 0.0390 | 01.277 | 300.29 | 064 | |
| 0C.22 | 0.0640 | 0.005 | 0.0627 | 0.3498 | 0.3496 | 0.3886 | 0.0126 | -0.0270 | 0.0008 | 0.0390 | 00.255 | 300.63 | 065 | |

CVG HIGH SPEED WIND TUNNEL TEST NUMBER 89

HSWT TEST 69

RUN 024 MACH NO 4.970 RN/L 1639013 Q 1465 PSF TO 596

10/23/62

COEFFICIENTS

| ALPHA | N | PW | L | D | A | AU | Y | YH | RH | AB | CP | PO | PNT |
|--------|----------|---------|---------|--------|--------|--------|---------|---------|---------|--------|---------|--------|-----|
| 00.228 | -0.0470 | 00.144 | -0.0456 | 0.3033 | 0.3030 | 0.3377 | -0.0068 | -0.0257 | 0.0015 | 0.0346 | 0.0320 | 300.63 | 006 |
| -11.58 | -1.46169 | -03.460 | -1.5212 | 0.6311 | 0.3129 | 0.3562 | 0.1309 | 0.0763 | 0.0013 | 0.0434 | 0.0501 | 300.63 | 007 |
| -11.36 | -1.48000 | -03.418 | -1.4880 | 0.6150 | 0.3099 | 0.3547 | 0.1229 | 0.0806 | 0.0024 | 0.0448 | 0.0573 | 300.63 | 008 |
| -11.16 | -1.5411 | -03.381 | -1.4523 | 0.6009 | 0.3083 | 0.3531 | 0.1263 | 0.0800 | 0.0019 | 0.0448 | 0.0665 | 300.63 | 009 |
| -10.94 | -1.44966 | -03.337 | -1.4109 | 0.5870 | 0.3086 | 0.3519 | 0.1252 | 0.0730 | 0.0017 | 0.0433 | 0.0675 | 300.63 | 010 |
| -10.72 | -1.4522 | -03.294 | -1.3700 | 0.5706 | 0.3059 | 0.3507 | 0.1326 | 0.0745 | 0.0026 | 0.0448 | 0.0892 | 300.63 | 011 |
| -10.49 | -1.4042 | -03.242 | -1.3252 | 0.5555 | 0.3049 | 0.3497 | 0.1263 | 0.0851 | 0.0021 | 0.0448 | 0.0713 | 300.63 | 012 |
| -10.27 | -1.4652 | -03.186 | -1.2890 | 0.5435 | 0.3051 | 0.3484 | 0.1308 | 0.0893 | 0.0023 | 0.0434 | 0.0709 | 300.63 | 013 |
| -10.02 | -1.3192 | -03.148 | -1.2468 | 0.5255 | 0.3005 | 0.3453 | 0.1275 | 0.0803 | 0.0012 | 0.0448 | 0.0749 | 300.63 | 014 |
| -09.77 | -1.2685 | -03.106 | -1.1988 | 0.5136 | 0.3028 | 0.3461 | 0.1286 | 0.0629 | 0.0021 | 0.0436 | 0.0743 | 300.63 | 015 |
| -09.55 | -1.2305 | -03.054 | -1.1636 | 0.5007 | 0.3008 | 0.3442 | 0.1253 | 0.0742 | 0.0019 | 0.0433 | 0.0716 | 300.63 | 016 |
| -09.32 | -1.1864 | -02.992 | -1.1223 | 0.4874 | 0.2992 | 0.3426 | 0.1220 | 0.0641 | 0.0021 | 0.0433 | 0.0766 | 300.63 | 017 |
| -09.10 | -1.1442 | -02.948 | -1.0824 | 0.4767 | 0.2996 | 0.3430 | 0.1216 | 0.0628 | 0.0021 | 0.0436 | 0.0817 | 300.63 | 018 |
| -08.88 | -1.1032 | -02.882 | -1.0444 | 0.4625 | 0.2959 | 0.3407 | 0.1137 | 0.0671 | 0.0021 | 0.0448 | 0.0793 | 300.63 | 019 |
| -08.62 | -1.0607 | -02.833 | -1.0042 | 0.4533 | 0.2976 | 0.3409 | 0.1062 | 0.0719 | 0.0012 | 0.0434 | 0.0814 | 300.63 | 020 |
| -08.38 | -1.0171 | -02.782 | -9.9630 | 0.4422 | 0.2972 | 0.3405 | 0.1057 | 0.0556 | 0.0021 | 0.0436 | 0.0808 | 300.63 | 021 |
| -08.16 | -0.9775 | -02.714 | -0.9253 | 0.4340 | 0.2983 | 0.3442 | 0.1015 | 0.0335 | 0.0016 | 0.0419 | 0.0835 | 300.63 | 022 |
| -07.94 | -0.9302 | -02.662 | -0.8804 | 0.4212 | 0.2955 | 0.3388 | 0.0971 | 0.0518 | 0.0016 | 0.0434 | 0.0869 | 300.63 | 023 |
| -07.70 | -0.8868 | -02.602 | -0.8392 | 0.4116 | 0.2954 | 0.3373 | 0.0925 | 0.0575 | 0.0009 | 0.0419 | 0.0913 | 300.63 | 024 |
| -07.49 | -0.8582 | -02.545 | -0.8124 | 0.4044 | 0.2951 | 0.3385 | 0.0884 | 0.0559 | 0.0006 | 0.0434 | 0.0909 | 300.63 | 025 |
| -07.27 | -0.8214 | -02.475 | -0.7777 | 0.3944 | 0.2928 | 0.3362 | 0.0873 | 0.0546 | 0.0015 | 0.0433 | 0.09155 | 300.63 | 026 |
| -07.03 | -0.7818 | -02.408 | -0.7400 | 0.3876 | 0.2942 | 0.3375 | 0.0795 | 0.0521 | 0.0019 | 0.0433 | 0.09356 | 300.63 | 027 |
| -06.81 | -0.7458 | -02.349 | -0.7056 | 0.3803 | 0.2939 | 0.3372 | 0.0754 | 0.0515 | 0.0020 | 0.0433 | 0.09571 | 300.63 | 028 |
| -06.59 | -0.6987 | -02.289 | -0.6608 | 0.3701 | 0.2923 | 0.3357 | 0.0776 | 0.0428 | 0.0013 | 0.0434 | 0.08693 | 300.63 | 029 |
| -06.36 | -0.6633 | -02.241 | -0.6266 | 0.3660 | 0.2944 | 0.3378 | 0.0738 | 0.0414 | 0.0011 | 0.0436 | 0.10266 | 300.63 | 030 |
| -06.10 | -0.6311 | -02.173 | -0.5963 | 0.3533 | 0.3295 | 0.3354 | 0.0624 | 0.0383 | 0.0012 | 0.0419 | 0.10472 | 300.63 | 031 |
| -05.87 | -0.5945 | -02.106 | -0.5614 | 0.3520 | 0.2927 | 0.3346 | 0.0650 | 0.0232 | 0.0014 | 0.0419 | 0.10765 | 300.63 | 032 |
| -05.64 | -0.5592 | -02.059 | -0.5275 | 0.3485 | 0.2951 | 0.3370 | 0.0605 | 0.0337 | 0.0007 | 0.0419 | 0.11186 | 300.63 | 033 |
| -05.41 | -0.5294 | -01.989 | -0.4991 | 0.3452 | 0.2967 | 0.3371 | 0.0563 | 0.0346 | 0.0009 | 0.0414 | 0.11414 | 300.63 | 034 |
| -05.15 | -0.5019 | -01.919 | -0.4734 | 0.3387 | 0.2949 | 0.3368 | 0.0556 | 0.0335 | 0.0009 | 0.0419 | 0.11612 | 300.63 | 035 |
| -04.92 | -0.4734 | -01.853 | -0.4463 | 0.3351 | 0.2956 | 0.3360 | 0.0515 | 0.0243 | 0.0019 | 0.0404 | 0.11893 | 300.63 | 036 |
| -04.68 | -0.4415 | -01.779 | -0.4160 | 0.3293 | 0.2942 | 0.3361 | 0.0447 | 0.0047 | 0.0004 | 0.0419 | 0.12243 | 300.63 | 037 |
| -04.45 | -0.4161 | -01.706 | -0.3918 | 0.3280 | 0.2965 | 0.3370 | 0.0438 | 0.0282 | 0.0020 | 0.0404 | 0.12458 | 300.63 | 038 |
| -04.19 | -0.3879 | -01.625 | -0.3648 | 0.3239 | 0.2964 | 0.3368 | 0.0436 | 0.019 | 0.0011 | 0.0404 | 0.12736 | 300.63 | 039 |
| -03.71 | -0.3627 | -01.554 | -0.3410 | 0.3249 | 0.2997 | 0.3366 | 0.0400 | 0.0229 | 0.0014 | 0.0361 | 0.13015 | 300.63 | 040 |
| -03.12 | -0.3370 | -01.479 | -0.3171 | 0.3178 | 0.2965 | 0.3355 | 0.0365 | 0.0238 | 0.0016 | 0.0360 | 0.13335 | 300.63 | 041 |
| -03.52 | -0.3123 | -01.408 | -0.2934 | 0.3171 | 0.2985 | 0.3375 | 0.0363 | 0.0304 | 0.0003 | 0.0390 | 0.13700 | 300.63 | 042 |
| -03.28 | -0.2986 | -01.322 | -0.2811 | 0.3151 | 0.2985 | 0.3361 | 0.0366 | 0.0217 | 0.0016 | 0.0376 | 0.13445 | 300.63 | 043 |
| -03.05 | -0.2729 | -01.264 | -0.2565 | 0.3154 | 0.3012 | 0.3388 | 0.0327 | 0.0276 | 0.0010 | 0.0375 | 0.14072 | 300.63 | 044 |
| -02.81 | -0.2555 | -01.194 | -0.2455 | 0.3129 | 0.307 | 0.3382 | 0.0293 | 0.0262 | -0.0001 | 0.0375 | 0.14201 | 300.63 | 045 |
| -02.51 | -0.2338 | -01.114 | -0.2199 | 0.3100 | 0.2997 | 0.3372 | 0.0226 | 0.0261 | 0.0011 | 0.0375 | 0.14471 | 300.63 | 046 |
| -02.39 | -0.2121 | -01.042 | -0.1994 | 0.3092 | 0.3006 | 0.3381 | 0.0249 | 0.0317 | 0.0011 | 0.0375 | 0.14931 | 300.63 | 047 |
| -02.16 | -0.1982 | -00.948 | -0.1867 | 0.3095 | 0.3022 | 0.3383 | 0.0213 | 0.0283 | 0.0005 | 0.0361 | 0.15229 | 300.63 | 048 |
| -01.94 | -0.1766 | -00.869 | -0.1663 | 0.3073 | 0.3015 | 0.3390 | 0.0209 | 0.0155 | 0.0010 | 0.0375 | 0.14943 | 300.63 | 049 |
| -01.70 | -0.1631 | -00.766 | -0.1541 | 0.3082 | 0.3010 | 0.3410 | 0.0203 | 0.0176 | 0.0011 | 0.0375 | 0.14269 | 300.63 | 050 |
| -01.45 | -0.1415 | -0.687 | -0.1337 | 0.3089 | 0.3034 | 0.3415 | 0.0199 | 0.0218 | 0.0016 | 0.0361 | 0.14151 | 300.63 | 051 |
| -01.23 | -0.1240 | -0.592 | -0.1175 | 0.3056 | 0.3030 | 0.3400 | 0.0160 | 0.0280 | 0.0010 | 0.0375 | 0.14496 | 300.63 | 052 |
| -01.01 | -0.1104 | -00.497 | -0.1050 | 0.3069 | 0.3041 | 0.3411 | 0.0120 | 0.0414 | 0.0009 | 0.0361 | 0.13689 | 300.63 | 053 |
| -00.79 | -0.0888 | -00.410 | -0.0846 | 0.3050 | 0.3038 | 0.3398 | 0.0084 | 0.0255 | 0.0016 | 0.0361 | 0.14016 | 300.63 | 054 |
| -00.55 | -0.0713 | -00.315 | -0.0684 | 0.3049 | 0.3043 | 0.3403 | 0.0078 | 0.0324 | 0.0012 | 0.0361 | 0.13399 | 300.63 | 055 |
| -00.31 | -C.0612 | -C.0221 | -0.0596 | 0.3014 | 0.3011 | 0.3409 | 0.0010 | 0.0253 | 0.0010 | 0.0375 | 0.10974 | 300.63 | 056 |

HSNT TEST 89
CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89
RUN 024 MACH NO 4.970 RN/L 16399013 C 1465 PSF TO 596

10/23/62

COEFFICIENTS

| ALPHA | N | PM | L | D | A | AU | V | VM | RM | AB | CP | PO | PNT | |
|-------|----------------------|---------|---------|--------|--------|--------|---------|---------|---------|--------|---------|--------|--------|-----|
| 00.09 | -C ₄ 4377 | -00.126 | -0.0433 | 0.3634 | 0.3033 | 0.3394 | 0.0106 | 0.0173 | C.00015 | 0.0361 | 0.0774 | 300.29 | 057 | |
| 00.16 | -C ₄ 262 | -00.031 | -0.0270 | 0.3033 | 0.3034 | 0.3394 | 0.0067 | 0.0234 | C.00018 | 0.0361 | 0.3595 | 300.63 | 058 | |
| 00.41 | -C ₄ 087 | -0.057 | -0.0108 | 0.3023 | 0.3023 | 0.3385 | 0.0090 | 0.0288 | 0.0013 | 0.0361 | -19.909 | 300.63 | 059 | |
| 00.63 | C.0127 | 00.162 | 0.094 | 0.3013 | 0.3011 | 0.3372 | 0.0091 | 0.0139 | 0.0018 | 0.0361 | 36.805 | 300.63 | 060 | |
| 00.86 | C.0303 | 0.258 | 0.258 | 0.3022 | 0.3018 | 0.3393 | 0.0016 | 0.0184 | 0.0019 | 0.0375 | 25.890 | 300.63 | 061 | |
| 01.08 | C.0478 | 00.363 | 0.021 | 0.3045 | 0.3036 | 0.3397 | 0.0009 | 0.0168 | 0.0021 | 0.0361 | 23.037 | 300.63 | 062 | |
| 01.33 | C.0656 | 00.491 | 0.0585 | 0.3059 | 0.3044 | 0.3405 | 0.0002 | 0.0154 | 0.0022 | 0.0361 | 20.887 | 300.29 | 063 | |
| 01.56 | C.0830 | 00.555 | 0.017 | 0.3052 | 0.3030 | 0.3406 | 0.0040 | 0.0204 | 0.0026 | 0.0375 | 20.311 | 300.63 | 064 | |
| 01.81 | C.0968 | 00.699 | 0.0812 | 0.3062 | 0.3033 | 0.3394 | -0.0012 | 0.0195 | 0.0029 | 0.0361 | 16.685 | 300.29 | 065 | |
| 02.03 | C.1181 | 00.747 | 0.1073 | 0.3094 | 0.3054 | 0.3415 | -0.0055 | 0.0248 | 0.0024 | 0.0361 | 19.213 | 300.63 | 066 | |
| 02.28 | C.1356 | 00.842 | 0.1234 | 0.3087 | 0.3036 | 0.3396 | -0.0026 | 0.0166 | 0.0031 | 0.0361 | 18.866 | 300.28 | 067 | |
| 02.48 | C.1536 | 00.931 | 0.1403 | 0.3109 | 0.3046 | 0.3407 | -0.0067 | 0.0146 | 0.0030 | 0.0361 | 18.420 | 300.63 | 068 | |
| 02.72 | C.172 | 01.0189 | 01.012 | 0.1642 | 0.3135 | 0.3053 | 0.3414 | -0.0074 | 0.0133 | 0.0031 | 0.0361 | 17.193 | 300.63 | 069 |
| 02.97 | C.1967 | 01.101 | 0.1807 | 0.3143 | 0.3046 | 0.3407 | -0.0082 | 0.0191 | 0.0037 | 0.0361 | 17.009 | 300.29 | 070 | |
| 03.19 | C.221 | 01.180 | 0.2009 | 0.3150 | 0.3033 | 0.3409 | -0.0088 | 0.0105 | 0.0042 | 0.0375 | 16.438 | 300.63 | 071 | |
| 03.43 | C.2471 | 01.254 | 0.2285 | 0.3186 | 0.3043 | 0.3404 | -0.0132 | 0.0232 | 0.0041 | 0.0361 | 15.414 | 300.63 | 072 | |
| 03.65 | C.2649 | 01.333 | 0.2449 | 0.3212 | 0.3050 | 0.3411 | -0.0104 | 0.0225 | 0.0044 | 0.0361 | 15.290 | 300.63 | 073 | |
| 03.87 | C.2940 | 01.407 | 0.2728 | 0.3238 | 0.3047 | 0.3422 | -0.0112 | 0.0213 | 0.0045 | 0.0375 | 14.534 | 300.63 | 074 | |
| 04.11 | C.321 | 01.478 | 0.2893 | 0.3280 | 0.3064 | 0.3426 | -0.0151 | 0.0122 | 0.0048 | 0.0361 | 14.387 | 300.63 | 075 | |
| 04.33 | C.3498 | 01.549 | 0.3169 | 0.3290 | 0.3061 | 0.3416 | -0.0090 | 0.0050 | 0.0048 | 0.0375 | 13.812 | 300.98 | 076 | |
| 04.58 | C.3822 | 01.630 | 0.3367 | 0.3340 | 0.3061 | 0.3407 | -0.0098 | 0.0105 | 0.0042 | 0.0375 | 13.667 | 300.98 | 077 | |
| 04.81 | C.3951 | 01.704 | 0.3662 | 0.3365 | 0.3045 | 0.3404 | -0.0132 | 0.0232 | 0.0041 | 0.0361 | 13.103 | 300.29 | 078 | |
| 05.04 | C.447 | 01.779 | 0.3695 | 0.3390 | 0.3029 | 0.3419 | -0.0184 | 0.0146 | 0.0046 | 0.0390 | 12.728 | 300.63 | 079 | |
| 05.27 | C.4533 | 01.851 | 0.4234 | 0.3455 | 0.3051 | 0.3427 | -0.0155 | 0.0138 | 0.0058 | 0.0375 | 12.403 | 300.28 | 080 | |
| 05.50 | C.4901 | 01.909 | 0.4883 | 0.3502 | 0.3082 | 0.3433 | -0.0195 | 0.0150 | 0.0061 | 0.0361 | 11.836 | 300.98 | 081 | |
| 05.72 | C.5199 | 01.985 | 0.4968 | 0.3555 | 0.3052 | 0.3442 | -0.0159 | 0.0118 | 0.0060 | 0.0390 | 11.600 | 300.63 | 082 | |
| 05.98 | C.5509 | 02.044 | 0.5253 | 0.3649 | 0.3082 | 0.3457 | -0.0196 | 0.0103 | 0.0059 | 0.0375 | 11.081 | 300.63 | 083 | |
| 06.24 | C.6010 | 02.104 | 0.5661 | 0.3703 | 0.3068 | 0.3458 | -0.0165 | 0.0099 | 0.0062 | 0.0390 | 10.633 | 300.63 | 084 | |
| 06.47 | C.6341 | 02.169 | 0.5954 | 0.3775 | 0.3080 | 0.3470 | -0.0170 | 0.0072 | 0.0058 | 0.0390 | 10.393 | 300.63 | 085 | |
| 06.70 | C.6659 | 02.235 | 0.6267 | 0.3819 | 0.3063 | 0.3452 | -0.0212 | 0.0155 | 0.0066 | 0.0390 | 10.181 | 300.63 | 086 | |
| 06.95 | C.7047 | 02.287 | 0.6623 | 0.3910 | 0.3080 | 0.3470 | -0.0149 | 0.0018 | 0.0071 | 0.0390 | 0.9861 | 300.29 | 087 | |
| 07.18 | C.7520 | 02.346 | 0.7074 | 0.4011 | 0.3096 | 0.3471 | -0.0191 | 0.0079 | 0.0074 | 0.0375 | 0.9476 | 300.63 | 088 | |
| 07.41 | C.7927 | 02.396 | 0.7661 | 0.4095 | 0.3098 | 0.3488 | -0.0163 | 0.0068 | 0.0082 | 0.0390 | 0.9184 | 300.29 | 089 | |
| 07.64 | C.8319 | 02.459 | 0.7892 | 0.4193 | 0.3106 | 0.3496 | -0.0172 | 0.0077 | 0.0078 | 0.0390 | 0.8183 | 300.63 | 090 | |
| 07.90 | C.8700 | 02.513 | 0.8194 | 0.4248 | 0.3082 | 0.3472 | -0.0109 | 0.0011 | 0.0088 | 0.0390 | 0.8915 | 300.29 | 090 | |
| 08.13 | C.9181 | 02.574 | 0.8648 | 0.4384 | 0.3117 | 0.3493 | -0.0117 | 0.0007 | 0.0080 | 0.0375 | 0.8517 | 300.63 | 092 | |
| 08.38 | C.9575 | 02.621 | 0.9118 | 0.4488 | 0.3110 | 0.3500 | -0.0159 | -0.0002 | 0.0087 | 0.0390 | 0.8230 | 300.29 | 093 | |
| 08.61 | C.0005 | 02.656 | 0.7074 | 0.4011 | 0.3096 | 0.3471 | -0.0191 | 0.0079 | 0.0074 | 0.0375 | 0.7250 | 300.63 | 100 | |
| 08.87 | C.0001 | 02.725 | 0.9991 | 0.4095 | 0.3098 | 0.3488 | -0.0163 | 0.0068 | 0.0082 | 0.0390 | 0.7809 | 300.29 | 095 | |
| 09.13 | C.0022 | 02.749 | 1.0292 | 0.4824 | 0.3130 | 0.3520 | -0.0143 | -0.0017 | 0.0091 | 0.0390 | 0.782 | 300.29 | 096 | |
| 09.33 | C.1406 | 02.851 | 1.0747 | 0.4946 | 0.3138 | 0.3528 | -0.0182 | 0.0039 | 0.0102 | 0.0390 | 0.7594 | 300.29 | 097 | |
| 09.53 | C.1839 | 02.899 | 1.1146 | 0.5090 | 0.3174 | 0.3564 | -0.0152 | 0.0037 | 0.0095 | 0.0390 | 0.7443 | 300.63 | 098 | |
| 09.73 | C.2200 | 02.957 | 1.148 | 0.5191 | 0.3174 | 0.3549 | -0.0156 | 0.0025 | 0.0103 | 0.0375 | 0.7365 | 300.63 | 099 | |
| 09.93 | C.2667 | 02.999 | 1.1827 | 0.5315 | 0.3196 | 0.3571 | -0.0126 | 0.0098 | 0.0100 | 0.0375 | 0.7250 | 300.63 | 100 | |
| 10.11 | C.2920 | 03.037 | 1.2162 | 0.5399 | 0.3181 | 0.3571 | -0.0161 | 0.0029 | 0.0107 | 0.0390 | 0.7141 | 300.98 | 101 | |
| 10.28 | C.3266 | 03.089 | 1.2481 | 0.5519 | 0.3203 | 0.3593 | -0.0063 | -0.0053 | 0.0110 | 0.0390 | 0.7075 | 300.63 | 102 | |
| 10.49 | C.3636 | 03.114 | 1.2829 | 0.5638 | 0.3220 | 0.3620 | -0.0068 | 0.0017 | 0.0104 | 0.0390 | 0.6938 | 300.63 | 103 | |
| 10.66 | C.3933 | 03.161 | 1.3036 | 0.5695 | 0.3233 | 0.3639 | -0.0069 | 0.0019 | 0.0108 | 0.0375 | 0.6932 | 300.63 | 104 | |
| 10.83 | C.4224 | 03.186 | 1.3377 | 0.5828 | 0.3253 | 0.3628 | -0.0075 | -0.0077 | 0.0105 | 0.0375 | 0.6767 | 300.63 | 105 | |
| 11.03 | C.4487 | 03.236 | 1.3648 | 0.5923 | 0.3253 | 0.3628 | -0.0075 | -0.0077 | 0.0105 | 0.0375 | 0.6650 | 300.63 | 107 | |

HSWT TEST 69

CVB HIGH SPEED WIND TUNNEL TEST NUMBER 89
 RUN 024 MACH NO 4.970 RN/L 16399013 Q 1465 PSF TO 596

10/23/62

COEFFICIENTS

| ALPHA | N | PN | L | D | A | AU | Y | YN | RN | AB | CP | PO | PNT |
|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|-----|
| 11.624 | 1.3327 | 03.310 | 1.4386 | 0.6237 | 0.3314 | 0.3689 | -0.0016 | -0.0008 | 0.0119 | 0.0375 | 06.577 | 300.63 | 108 |
| 11.644 | 1.3691 | 03.399 | 1.4686 | 0.6370 | 0.3331 | 0.3692 | -0.0055 | 0.0053 | 0.0111 | 0.0361 | 06.517 | 300.63 | 109 |
| 11.653 | 1.6320 | 03.432 | 1.5311 | 0.6569 | 0.3349 | 0.3710 | -0.0027 | 0.0118 | 0.0115 | 0.0361 | 06.389 | 300.63 | 111 |
| 11.666 | 1.6545 | 03.437 | 1.5525 | 0.6634 | 0.3359 | 0.3734 | -0.0030 | 0.0117 | 0.0114 | 0.0375 | 06.311 | 300.63 | 112 |
| 11.672 | 1.6617 | 03.463 | 1.5588 | 0.6662 | 0.3356 | 0.3731 | 0.0040 | -0.0022 | 0.0118 | 0.0375 | 06.332 | 300.63 | 113 |
| 11.675 | 1.6712 | 03.457 | 1.5691 | 0.6712 | 0.3373 | 0.3737 | 0.0037 | 0.0053 | 0.0113 | 0.0361 | 06.279 | 300.63 | 114 |
| 11.678 | 1.6805 | 03.459 | 1.5762 | 0.6736 | 0.3376 | 0.3737 | -0.0031 | 0.0039 | 0.0117 | 0.0361 | 06.256 | 300.63 | 115 |
| 11.678 | 1.6767 | 03.467 | 1.5722 | 0.6741 | 0.3390 | 0.3750 | 0.0039 | -0.0094 | 0.0113 | 0.0361 | 06.281 | 300.63 | 116 |
| 11.678 | 1.6786 | 03.471 | 1.5740 | 0.6750 | 0.3394 | 0.3755 | 0.0004 | -0.0028 | 0.0115 | 0.0361 | 06.281 | 300.29 | 117 |
| 11.678 | 1.6729 | 03.476 | 1.5691 | 0.6700 | 0.3356 | 0.3731 | 0.0086 | -0.0102 | 0.0110 | 0.0375 | 06.309 | 300.63 | 118 |
| 11.678 | 1.6605 | 03.459 | 1.5755 | 0.6768 | 0.3409 | 0.3770 | 0.0037 | -0.0019 | 0.0108 | 0.0361 | 06.253 | 300.63 | 119 |
| 00.623 | 0.0591 | 00.097 | 0.0578 | 0.3115 | 0.3112 | 0.3473 | -0.0052 | 0.0123 | 0.0016 | 0.0361 | 04.974 | 300.29 | 020 |

| CVG HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSWT TEST 89 | | | | | | | | | |
|--|---------|---------|---------|--------|--------|--------|---------|--------|---------|--------------|-------|--------|---------|--------|--------|--------|--------|--------|--------|
| RUN 025 MACH NO 4.970 KNL 17345449 Q 1463 PSF T0 576 | | | | | | | | | | 10/23/62 | | | | | | | | | |
| COEFFICIENTS | | | | | | | | | | COEFFICIENTS | | | | | | | | | |
| ALPHA | N | PM | L | C | A | AU | Y | YM | RM | AB | CP | PO | P0 | PNT | AB | CP | PO | P0 | PNT |
| 0C.32 | 0.0437 | 00.109 | 0.0422 | 0.2652 | 0.2649 | 0.3383 | 0.0018 | 0.0245 | -0.0009 | 0.0734 | 0.570 | 300.63 | 006 | 0.0750 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 |
| -10.98 | -0.9490 | -02.253 | -0.0834 | 0.4291 | 0.2520 | 0.3285 | 0.0429 | 0.0270 | -0.0011 | 0.0735 | 0.212 | 300.29 | 049 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 |
| -10.74 | -C.9271 | -02.222 | -0.8637 | 0.4215 | 0.2531 | 0.3286 | 0.0390 | 0.0266 | -0.0013 | 0.0755 | 0.282 | 300.29 | 008 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 |
| -10.92 | -0.9217 | -02.182 | -0.8402 | 0.4141 | 0.2537 | 0.3271 | 0.0385 | 0.0175 | -0.0009 | 0.0754 | 0.253 | 300.29 | 009 | 0.0755 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -10.34 | -C.8876 | -02.143 | -0.8280 | 0.4073 | 0.2521 | 0.3255 | 0.0380 | 0.0257 | -0.0013 | 0.0734 | 0.334 | 300.29 | 010 | 0.0754 | 0.0734 | 0.0734 | 0.0734 | 0.0734 | 0.0734 |
| -10.09 | -C.8584 | -02.112 | -0.8008 | 0.3991 | 0.256 | 0.3260 | 0.0374 | 0.0253 | -0.0013 | 0.0754 | 0.476 | 300.29 | 011 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -09.88 | -C.8352 | -02.070 | -0.7807 | 0.3862 | 0.2485 | 0.3239 | 0.0369 | 0.0162 | -0.0013 | 0.0754 | 0.526 | 300.63 | 012 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -09.69 | -0.8152 | -02.023 | -0.7621 | 0.3818 | 0.2488 | 0.3243 | 0.0295 | 0.0241 | -0.0009 | 0.0755 | 0.538 | 300.29 | 013 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 |
| -09.42 | -0.7935 | -01.993 | -0.7420 | 0.3756 | 0.2491 | 0.3246 | 0.0360 | 0.0152 | -0.0018 | 0.0755 | 0.630 | 300.29 | 014 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 |
| -08.75 | -0.7326 | -01.863 | -0.6863 | 0.3562 | 0.2476 | 0.3231 | 0.0309 | 0.0222 | -0.0016 | 0.0755 | 0.728 | 300.29 | 017 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 |
| -08.91 | -0.7040 | -01.835 | -0.6595 | 0.3498 | 0.2484 | 0.3239 | 0.0269 | 0.0218 | -0.0010 | 0.0755 | 0.919 | 299.94 | 018 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 |
| -08.32 | -0.6892 | -01.786 | -0.6463 | 0.3434 | 0.2462 | 0.3217 | 0.0264 | 0.0212 | -0.0010 | 0.0755 | 0.862 | 300.29 | 019 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 |
| -08.08 | -0.6638 | -01.744 | -0.6226 | 0.3373 | 0.2464 | 0.3219 | 0.0240 | 0.0207 | -0.0001 | 0.0755 | 0.980 | 300.29 | 020 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 |
| -07.90 | -0.6415 | -01.702 | -0.6016 | 0.3339 | 0.2483 | 0.3217 | 0.0253 | 0.0202 | -0.0010 | 0.0754 | 0.959 | 300.63 | 021 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -07.63 | -0.6214 | -01.666 | -0.5829 | 0.3278 | 0.2471 | 0.3226 | 0.0282 | 0.0198 | -0.0008 | 0.0755 | 0.145 | 299.94 | 022 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 |
| -07.44 | -0.5989 | -01.624 | -0.5619 | 0.3222 | 0.2468 | 0.3223 | 0.0210 | 0.0192 | -0.0013 | 0.0755 | 0.237 | 300.29 | 023 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 |
| -07.21 | -0.5806 | -01.586 | -0.5448 | 0.3200 | 0.2491 | 0.3225 | 0.0242 | 0.0188 | -0.0010 | 0.0754 | 0.289 | 300.29 | 024 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -07.00 | -0.5598 | -01.549 | -0.5200 | 0.3175 | 0.2517 | 0.3230 | 0.0241 | 0.0183 | -0.0010 | 0.0753 | 0.456 | 300.29 | 025 | 0.0753 | 0.0753 | 0.0753 | 0.0753 | 0.0753 | 0.0753 |
| -06.77 | -0.5399 | -01.483 | -0.5070 | 0.3089 | 0.2470 | 0.3225 | 0.0240 | 0.0176 | -0.0010 | 0.0755 | 0.347 | 300.63 | 026 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 | 0.0755 |
| -06.56 | -0.5212 | -01.434 | -0.4898 | 0.3078 | 0.2492 | 0.3226 | 0.0298 | 0.0170 | -0.0001 | 0.0754 | 0.351 | 300.63 | 027 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -06.30 | -0.4924 | -01.415 | -0.4619 | 0.3028 | 0.2492 | 0.3236 | 0.0203 | 0.0167 | -0.0003 | 0.0754 | 0.730 | 300.29 | 028 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -06.12 | -0.4704 | -01.375 | -0.4410 | 0.2995 | 0.2508 | 0.3242 | 0.0167 | 0.0248 | -0.0009 | 0.0754 | 0.879 | 300.29 | 029 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -05.89 | -0.4484 | -01.320 | -0.4202 | 0.2959 | 0.251 | 0.3246 | 0.0199 | 0.0143 | -0.0007 | 0.0754 | 0.946 | 300.29 | 030 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -05.67 | -0.4301 | -01.286 | -0.4030 | 0.2941 | 0.2528 | 0.3262 | 0.0152 | 0.0003 | -0.0003 | 0.0754 | 0.81 | 300.29 | 031 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -05.44 | -0.4119 | -01.246 | -0.3860 | 0.2911 | 0.2531 | 0.3265 | 0.0164 | 0.0232 | -0.0009 | 0.0754 | 0.189 | 300.29 | 032 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -05.19 | -0.3936 | -01.196 | -0.3691 | 0.2787 | 0.2531 | 0.3265 | 0.0197 | 0.0141 | -0.0002 | 0.0754 | 0.234 | 300.29 | 033 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -04.94 | -0.3754 | -01.157 | -0.3522 | 0.2847 | 0.2531 | 0.3267 | 0.0162 | 0.0222 | -0.0009 | 0.0754 | 0.360 | 300.29 | 034 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -04.72 | -0.3568 | -01.106 | -0.3348 | 0.2816 | 0.2531 | 0.3265 | 0.0161 | 0.0116 | -0.0008 | 0.0754 | 0.415 | 300.63 | 035 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -04.50 | -0.3426 | -01.067 | -0.3124 | 0.2832 | 0.2572 | 0.3284 | 0.0126 | 0.0211 | -0.0002 | 0.0754 | 0.466 | 300.29 | 036 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -04.27 | -0.3284 | -01.000 | -0.3085 | 0.2787 | 0.2520 | 0.3284 | 0.0126 | 0.0204 | -0.0010 | 0.0754 | 0.328 | 300.29 | 037 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -04.02 | -0.3062 | -00.968 | -0.2876 | 0.2761 | 0.2553 | 0.3287 | 0.0124 | 0.0199 | -0.0001 | 0.0754 | 0.607 | 300.29 | 038 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -03.81 | -0.2918 | -00.919 | -0.2742 | 0.2739 | 0.2551 | 0.3285 | 0.0125 | 0.0188 | -0.0006 | 0.0754 | 0.569 | 300.29 | 039 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -03.59 | -0.2737 | -00.870 | -0.2569 | 0.2758 | 0.2591 | 0.3304 | 0.0123 | 0.0188 | -0.0001 | 0.0754 | 0.653 | 300.29 | 040 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -03.34 | -0.2554 | -00.820 | -0.2399 | 0.2735 | 0.2591 | 0.3304 | 0.0123 | 0.0096 | -0.0004 | 0.0754 | 0.755 | 300.29 | 041 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -03.13 | -0.2412 | -00.761 | -0.2267 | 0.2719 | 0.2591 | 0.3304 | 0.0122 | 0.0175 | -0.0000 | 0.0754 | 0.784 | 300.29 | 042 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -02.88 | -0.2229 | -00.721 | -0.2096 | 0.2701 | 0.2592 | 0.3305 | 0.0123 | 0.0176 | -0.0002 | 0.0754 | 0.713 | 300.29 | 043 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -02.67 | -0.2124 | -00.662 | -0.2001 | 0.2686 | 0.2590 | 0.3303 | 0.0121 | 0.0164 | -0.0000 | 0.0754 | 0.474 | 300.29 | 044 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -02.42 | -0.1836 | -00.577 | -0.1733 | 0.2676 | 0.2606 | 0.3319 | 0.0079 | 0.0153 | -0.0003 | 0.0754 | 0.569 | 300.29 | 045 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -02.02 | -0.1692 | -00.514 | -0.1599 | 0.2676 | 0.2618 | 0.3331 | 0.0075 | 0.0145 | -0.0005 | 0.0754 | 0.222 | 300.63 | 047 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -01.80 | -0.1513 | -00.465 | -0.1430 | 0.2670 | 0.2623 | 0.3336 | 0.0071 | 0.0140 | -0.0004 | 0.0754 | 0.330 | 300.29 | 048 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -01.57 | -0.1406 | -00.415 | -0.1334 | 0.2638 | 0.2600 | 0.3313 | 0.0067 | 0.0134 | -0.0003 | 0.0754 | 0.699 | 300.63 | 049 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -01.35 | -0.1188 | -00.365 | -0.1125 | 0.2648 | 0.2620 | 0.3333 | 0.0063 | 0.0128 | -0.0003 | 0.0754 | 0.348 | 300.63 | 050 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -01.11 | -0.1063 | -0.316 | -0.1032 | 0.2642 | 0.2621 | 0.3334 | 0.0025 | 0.0123 | -0.0000 | 0.0754 | 0.880 | 300.29 | 051 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -00.66 | -0.0758 | -0.217 | -0.0128 | 0.2610 | 0.2601 | 0.3314 | 0.0017 | 0.0110 | -0.0007 | 0.0754 | 0.715 | 300.63 | 053 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -00.45 | -0.0619 | -0.168 | -0.0595 | 0.2610 | 0.2605 | 0.3318 | 0.0013 | 0.0104 | -0.0007 | 0.0754 | 0.307 | 300.29 | 054 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| -00.24 | -0.0474 | -0.109 | -0.0463 | 0.2589 | 0.2600 | 0.3320 | 0.0024 | 0.0098 | -0.0005 | 0.0754 | 0.713 | 300.29 | 055 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| 00.19 | -0.0188 | -0.010 | -0.0196 | 0.2607 | 0.2608 | 0.3321 | 0.0004 | 0.0087 | -0.0004 | 0.0754 | 0.697 | 299.94 | 057 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| 00.43 | -0.0004 | 00.029 | -0.0023 | 0.2604 | 0.2604 | 0.3317 | -0.0036 | 0.0082 | -0.0006 | 0.0754 | 0.481 | 300.29 | 058 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 | 0.0754 |
| 00.64 | 0.0104 | 00.088 | 0.0074 | 0.2600 | 0.2599 | 0.3312 | -0.0007 | 0.0075 | -0.0006 | 0.0754 | 0.713 | 300.29 | 059</td | | | | | | |

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| ALPHA | N | PN | L | D | A | AU | Y | YM | RH | AB | CP | PO | PNT |
|-------|---------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|-----|
| 01.32 | 0.20578 | 0.0247 | 0.0517 | 0.2658 | 0.2645 | 0.3358 | -0.0023 | 0.0057 | 0.0000 | 0.0713 | 12.954 | 299.94 | 062 |
| 01.56 | C.0723 | 0.0296 | 0.0651 | 0.2657 | 0.2639 | 0.3352 | -0.0005 | 0.0051 | 0.0003 | 0.0713 | 12.440 | 300.29 | 063 |
| 01.78 | 0.20669 | 0.0345 | 0.0756 | 0.2662 | 0.2636 | 0.3349 | 0.0000 | 0.0046 | 0.0004 | 0.0713 | 12.063 | 300.29 | 064 |
| 02.02 | 0.1015 | 0.0404 | 0.0920 | 0.2708 | 0.2674 | 0.3365 | -0.0005 | 0.0039 | 0.0005 | 0.0692 | 12.111 | 299.94 | 065 |
| 02.24 | 0.1199 | 0.0454 | 0.1095 | 0.2662 | 0.2617 | 0.3303 | -0.0045 | 0.0032 | 0.0013 | 0.0713 | 11.508 | 299.94 | 066 |
| 02.46 | 0.1379 | 0.0502 | 0.1263 | 0.2721 | 0.2666 | 0.3356 | -0.0017 | 0.0027 | 0.0007 | 0.0692 | 11.073 | 300.63 | 067 |
| 02.69 | 0.1486 | 0.0561 | 0.1359 | 0.2741 | 0.2674 | 0.3366 | -0.0056 | 0.0019 | 0.0015 | 0.0692 | 11.475 | 300.63 | 068 |
| 02.91 | 0.1671 | 0.0611 | 0.1531 | 0.2801 | 0.2719 | 0.3369 | -0.0062 | 0.0015 | 0.0007 | 0.0692 | 11.116 | 300.29 | 069 |
| 03.12 | 0.1854 | 0.0661 | 0.1707 | 0.2752 | 0.2655 | 0.3368 | -0.0034 | 0.0007 | 0.0018 | 0.0713 | 10.830 | 300.29 | 070 |
| 03.36 | 0.1962 | 0.0720 | 0.1803 | 0.2760 | 0.2649 | 0.3362 | -0.0073 | 0.0001 | 0.0017 | 0.0713 | 11.149 | 300.29 | 071 |
| 03.79 | 0.2328 | 0.0819 | 0.2148 | 0.2796 | 0.2648 | 0.3361 | -0.0050 | 0.0012 | 0.0012 | 0.0713 | 10.666 | 300.29 | 073 |
| 04.51 | 0.2802 | 0.0977 | 0.2585 | 0.2871 | 0.2659 | 0.3351 | -0.0101 | 0.0029 | 0.0022 | 0.0692 | 10.590 | 300.29 | 076 |
| 04.70 | 0.3024 | 0.1017 | 0.2799 | 0.2867 | 0.2628 | 0.3320 | -0.107 | 0.0036 | 0.0031 | 0.0692 | 10.213 | 300.29 | 077 |
| 04.92 | C.3221 | 0.1067 | 0.2969 | 0.2946 | 0.2681 | 0.3312 | -0.0183 | 0.0046 | 0.0024 | 0.0692 | 10.099 | 299.94 | 078 |
| 05.14 | 0.3357 | 0.1117 | 0.3105 | 0.2947 | 0.2657 | 0.3310 | -0.0188 | 0.0040 | 0.0024 | 0.0713 | 10.107 | 299.94 | 079 |
| 05.37 | 0.3574 | 0.1169 | 0.3311 | 0.2960 | 0.2638 | 0.3320 | -0.0160 | 0.0034 | 0.0027 | 0.0713 | 0.995 | 300.29 | 080 |
| 05.59 | 0.3795 | 0.1205 | 0.3518 | 0.3013 | 0.2656 | 0.3369 | -0.0098 | 0.0027 | 0.0032 | 0.0713 | 0.968 | 300.29 | 081 |
| 05.81 | 0.3979 | 0.1255 | 0.3691 | 0.3028 | 0.2638 | 0.3351 | -0.0138 | 0.0022 | 0.0031 | 0.0713 | 0.958 | 300.29 | 082 |
| 06.08 | 0.4199 | 0.1304 | 0.3898 | 0.3068 | 0.2645 | 0.3351 | -0.111 | 0.0016 | 0.0034 | 0.0713 | 0.943 | 300.29 | 083 |
| 06.31 | 0.4422 | 0.1344 | 0.4105 | 0.3108 | 0.2639 | 0.3351 | -0.0185 | 0.0011 | 0.0039 | 0.0713 | 0.925 | 300.29 | 084 |
| 06.53 | 0.4605 | 0.1394 | 0.4274 | 0.3160 | 0.2654 | 0.3366 | -0.0191 | 0.0003 | 0.0040 | 0.0713 | 0.919 | 300.29 | 085 |
| 06.79 | 0.4889 | 0.1433 | 0.4444 | 0.3198 | 0.2654 | 0.3367 | -0.0163 | 0.0003 | 0.0034 | 0.0713 | 0.903 | 300.29 | 086 |
| 07.00 | 0.5053 | 0.1485 | 0.4693 | 0.3239 | 0.2643 | 0.3356 | -0.0136 | 0.0006 | 0.0037 | 0.0713 | 0.897 | 299.94 | 087 |
| 07.22 | 0.5306 | 0.1523 | 0.4929 | 0.3310 | 0.2664 | 0.3356 | -0.0178 | 0.0017 | 0.0040 | 0.0713 | 0.871 | 300.29 | 088 |
| 07.47 | 0.5567 | 0.1553 | 0.5116 | 0.3346 | 0.2645 | 0.3358 | -0.0150 | 0.0016 | 0.0047 | 0.0713 | 0.847 | 300.29 | 089 |
| 07.69 | 0.5788 | 0.1603 | 0.5374 | 0.3450 | 0.2700 | 0.3392 | -0.0157 | 0.0020 | 0.0039 | 0.0692 | 0.814 | 300.29 | 090 |
| 07.91 | 0.6010 | 0.1643 | 0.5586 | 0.3465 | 0.2663 | 0.3376 | -0.0197 | 0.0026 | 0.0046 | 0.0713 | 0.804 | 300.29 | 091 |
| 08.16 | 0.6230 | 0.1693 | 0.5844 | 0.3517 | 0.2659 | 0.3393 | -0.0200 | 0.0054 | 0.0043 | 0.0713 | 0.793 | 300.29 | 092 |
| 08.35 | 0.6490 | 0.1732 | 0.6036 | 0.3582 | 0.2667 | 0.3380 | -0.0168 | 0.0037 | 0.0051 | 0.0713 | 0.810 | 300.29 | 093 |
| 08.63 | 0.6710 | 0.1782 | 0.6234 | 0.3643 | 0.2677 | 0.3319 | -0.0205 | 0.0041 | 0.0054 | 0.0713 | 0.869 | 300.29 | 094 |
| 08.85 | 0.6940 | 0.1824 | 0.6444 | 0.3724 | 0.2688 | 0.3401 | -0.0207 | 0.0037 | 0.0055 | 0.0713 | 0.845 | 299.94 | 095 |
| 09.96 | 0.8273 | 0.2054 | 0.7682 | 0.4088 | 0.2698 | 0.3432 | -0.0210 | 0.0032 | 0.0056 | 0.0713 | 0.7826 | 300.29 | 096 |
| 10.04 | 0.8430 | 0.2086 | 0.7823 | 0.4171 | 0.2707 | 0.3420 | -0.0157 | 0.0026 | 0.0057 | 0.0713 | 0.7834 | 300.29 | 097 |
| 10.21 | 0.7412 | 0.1912 | 0.6887 | 0.3812 | 0.2685 | 0.3419 | -0.0179 | 0.0026 | 0.0063 | 0.0713 | 0.8253 | 300.29 | 098 |
| 09.46 | 0.7643 | 0.1954 | 0.7098 | 0.3909 | 0.2689 | 0.3424 | -0.0179 | 0.0064 | 0.0056 | 0.0734 | 0.765 | 299.94 | 098 |
| 09.63 | 0.7895 | 0.1982 | 0.7334 | 0.3973 | 0.2691 | 0.3425 | -0.0182 | 0.0068 | 0.0056 | 0.0734 | 0.736 | 300.29 | 099 |
| 10.48 | 0.8088 | 0.2024 | 0.7504 | 0.4072 | 0.2733 | 0.3446 | -0.0174 | 0.0059 | 0.0065 | 0.0734 | 0.7626 | 300.29 | 099 |
| 10.62 | 0.8273 | 0.2054 | 0.7682 | 0.4088 | 0.2698 | 0.3432 | -0.0186 | 0.0068 | 0.0062 | 0.0713 | 0.7602 | 299.94 | 100 |
| 10.90 | 0.9235 | 0.2233 | 0.8551 | 0.4433 | 0.2737 | 0.3471 | -0.0196 | 0.0014 | 0.0066 | 0.0734 | 0.7562 | 299.94 | 101 |
| 11.07 | 0.9532 | 0.2274 | 0.8824 | 0.4539 | 0.2760 | 0.3494 | -0.0164 | 0.0020 | 0.0069 | 0.0713 | 0.7518 | 299.94 | 102 |
| 11.19 | 0.9679 | 0.2303 | 0.7958 | 0.4215 | 0.2738 | 0.3473 | -0.0189 | 0.0022 | 0.0063 | 0.0734 | 0.7459 | 299.94 | 103 |
| 11.33 | C.9866 | 0.2324 | 0.9131 | 0.4649 | 0.2720 | 0.3454 | -0.0226 | 0.0083 | 0.0066 | 0.0734 | 0.7437 | 299.94 | 104 |
| 11.42 | 0.9913 | 0.2166 | 0.8265 | 0.4318 | 0.2742 | 0.3476 | -0.0193 | 0.0008 | 0.0065 | 0.0734 | 0.7156 | 299.94 | 110 |
| 11.43 | 0.9939 | 0.2344 | 0.9194 | 0.4702 | 0.28C4 | 0.3517 | -0.0168 | 0.0030 | 0.0065 | 0.0734 | 0.736 | 299.59 | 111 |
| 11.39 | 1.0002 | 0.2351 | 0.9256 | 0.4700 | 0.2733 | 0.3415 | -0.0149 | 0.0010 | 0.0066 | 0.0713 | 0.7334 | 299.94 | 106 |
| 11.42 | 1.0077 | 0.2351 | 0.9329 | 0.4718 | 0.2783 | 0.3471 | -0.0166 | 0.0023 | 0.0066 | 0.0734 | 0.7347 | 299.94 | 107 |
| 11.42 | 1.0077 | 0.2351 | 0.9329 | 0.4718 | 0.2783 | 0.3471 | -0.0166 | 0.0023 | 0.0066 | 0.0734 | 0.7347 | 299.94 | 108 |
| 11.42 | 1.0076 | 0.2361 | 0.9322 | 0.4742 | 0.2711 | 0.3453 | -0.0189 | 0.0024 | 0.0070 | 0.0734 | 0.7210 | 299.94 | 109 |
| 11.42 | 1.0087 | C.2374 | 0.9316 | 0.4727 | 0.2783 | 0.3479 | -0.0168 | 0.0026 | 0.0070 | 0.0734 | 0.7156 | 299.94 | 110 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSWT TEST 89 | | | | |
|---|--------|---------|--------|--------|----------|--------|---------|---------|--------|--------------|----------|--------|-----|--|
| RUN | 025 | MACH NO | 4.970 | RN/L | 17345449 | U | 1463 | PSF | 10 | 576 | | | | |
| | | | | | | | | | | | 10/23/62 | | | |
| COEFFICIENTS | | | | | | | | | | | | | | |
| ALPHA | N | PW | L | D | A | AU | V | VW | RM | AR | CP | PO | PNT | |
| 11.42 | 1.0125 | 02.376 | 0.9310 | 0.4752 | 0.2802 | 0.1536 | -0.0239 | -0.0032 | 0.0076 | 0.0734 | 07.122 | 299.94 | 116 | |
| 07.02 | 0.6448 | 01.633 | 0.5677 | 0.3388 | 0.2668 | 0.1402 | -0.0163 | -0.0024 | 0.0038 | 0.0734 | 08.206 | 300.29 | 108 | |
| 00.22 | 0.0448 | 00.041 | 0.0437 | 0.2671 | 0.2669 | 0.1361 | -0.0045 | 0.0080 | 0.0003 | 0.0692 | 02.774 | 299.94 | 119 | |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | | | HSWT TEST 89 | | | | | | | | | | | | | | | |
|--|---------|---------|---------|--------|--------|----------|--------|---------|---------|--------|-------|--|-----|--------|---------|---------|---------|----------|--------|--------|--------|--------|---------|--------|-------|--------|-----|
| RUN 026 MACH NO 3.980 RNL 21648648 Q 2504 PSF TO 556 | | | | | | 10/17/62 | | | | | | RUN 026 MACH NO 3.980 RNL 21648648 Q 2504 PSF TO 556 | | | | | | 10/17/62 | | | | | | | | | |
| COEFFICIENTS | | | | | | | | | | | | COEFFICIENTS | | | | | | | | | | | | | | | |
| ALPHA | N | PW | L | D | A | AU | V | VH | RW | AB | CP | P0 | PNT | ALPHA | N | PW | L | D | A | AU | V | VH | RW | AB | CP | P0 | PNT |
| 00.41 | 0.0322 | 00.056 | 0.0302 | 0.2742 | 0.2739 | 0.3552 | 0.0032 | -0.0057 | -0.0005 | 0.0813 | 0.459 | 233.29 | 006 | -11.68 | -1.0109 | -0.2437 | -0.3339 | 0.4759 | 0.2782 | 0.3668 | 0.0800 | 0.0311 | -0.0001 | 0.0899 | 0.323 | 232.94 | 007 |
| -11.63 | -1.0101 | -0.2436 | -0.3333 | 0.4761 | 0.2761 | 0.3681 | 0.0744 | 0.0207 | -0.0005 | 0.0899 | 0.323 | 232.94 | 008 | -11.52 | -1.0022 | -0.2419 | -0.3266 | 0.4722 | 0.2777 | 0.3675 | 0.0725 | 0.0200 | -0.0006 | 0.0899 | 0.323 | 232.94 | 009 |
| -11.38 | -0.9889 | -0.2396 | -0.3147 | 0.4673 | 0.2677 | 0.3675 | 0.0807 | 0.0188 | -0.0006 | 0.0899 | 0.323 | 232.60 | 010 | -11.21 | -0.9739 | -0.2364 | -0.3015 | 0.4609 | 0.2669 | 0.3668 | 0.0769 | 0.0225 | -0.0001 | 0.0899 | 0.323 | 232.60 | 011 |
| -11.01 | -0.9518 | -0.2333 | -0.2815 | 0.4527 | 0.2761 | 0.3659 | 0.0773 | 0.0208 | -0.0000 | 0.0899 | 0.322 | 232.25 | 012 | -10.81 | -0.9313 | -0.2283 | -0.6333 | 0.4446 | 0.2748 | 0.3647 | 0.0736 | 0.0286 | -0.0003 | 0.0899 | 0.322 | 232.60 | 013 |
| -10.56 | -0.9057 | -0.2236 | -0.6399 | 0.4368 | 0.2755 | 0.3641 | 0.0761 | 0.0214 | -0.0000 | 0.0886 | 0.322 | 232.60 | 014 | -10.36 | -0.8801 | -0.2195 | -0.6167 | 0.4269 | 0.2731 | 0.3630 | 0.0763 | 0.0295 | -0.0003 | 0.0899 | 0.322 | 232.60 | 015 |
| -10.13 | -0.8544 | -0.2143 | -0.1932 | 0.4184 | 0.2724 | 0.3622 | 0.0696 | 0.0167 | -0.0001 | 0.0899 | 0.322 | 232.60 | 016 | -09.88 | -0.8300 | -0.2099 | -0.7708 | 0.4119 | 0.2736 | 0.3622 | 0.0732 | 0.0222 | -0.0002 | 0.0886 | 0.322 | 232.25 | 017 |
| -09.65 | -0.7990 | -0.2050 | -0.7423 | 0.4009 | 0.2708 | 0.3607 | 0.0757 | 0.0224 | -0.0002 | 0.0899 | 0.322 | 232.60 | 018 | -09.39 | -0.7722 | -0.2000 | -0.7177 | 0.3930 | 0.2706 | 0.3605 | 0.0645 | 0.0148 | -0.0003 | 0.0899 | 0.322 | 232.25 | 019 |
| -09.19 | -0.7467 | -0.1942 | -0.6942 | 0.3849 | 0.2691 | 0.3589 | 0.0701 | 0.0273 | -0.0001 | 0.0899 | 0.322 | 232.25 | 020 | -08.96 | -0.7190 | -0.1890 | -0.6682 | 0.3786 | 0.2699 | 0.3586 | 0.0635 | 0.0098 | -0.0002 | 0.0886 | 0.322 | 232.25 | 021 |
| -08.70 | -0.6906 | -0.1846 | -0.6416 | 0.3723 | 0.2710 | 0.3596 | 0.0671 | 0.0135 | -0.0003 | 0.0886 | 0.321 | 231.90 | 022 | -08.47 | -0.6644 | -0.1790 | -0.6176 | 0.3632 | 0.2682 | 0.3581 | 0.0566 | 0.0122 | -0.0001 | 0.0899 | 0.321 | 232.25 | 023 |
| -08.21 | -0.6415 | -0.1738 | -0.5966 | 0.3573 | 0.2655 | 0.3572 | 0.0522 | 0.0111 | -0.0004 | 0.0886 | 0.321 | 232.25 | 024 | -08.01 | -0.6167 | -0.1688 | -0.5735 | 0.3496 | 0.2663 | 0.3549 | 0.0632 | 0.0156 | 0.0001 | 0.0886 | 0.321 | 232.25 | 025 |
| -07.77 | -0.5936 | -0.1639 | -0.5521 | 0.3443 | 0.2667 | 0.3521 | 0.0501 | 0.0101 | -0.0002 | 0.0874 | 0.321 | 232.25 | 026 | -07.55 | -0.5683 | -0.1592 | -0.5284 | 0.3393 | 0.2669 | 0.3543 | 0.0501 | 0.0044 | -0.0004 | 0.0874 | 0.321 | 232.25 | 027 |
| -07.33 | -0.5455 | -0.1540 | -0.5071 | 0.3338 | 0.2664 | 0.3538 | 0.0533 | 0.0088 | 0.0000 | 0.0874 | 0.321 | 232.25 | 028 | -07.08 | -0.5197 | -0.1491 | -0.4830 | 0.3274 | 0.2652 | 0.3527 | 0.0535 | 0.0079 | 0.0005 | 0.0874 | 0.321 | 232.25 | 029 |
| -06.84 | -0.4931 | -0.1446 | -0.4577 | 0.3249 | 0.2647 | 0.3491 | 0.0518 | 0.0058 | 0.0079 | 0.0837 | 0.321 | 232.25 | 030 | -06.55 | -0.4746 | -0.1398 | -0.4411 | 0.3193 | 0.2669 | 0.3518 | 0.0472 | 0.0073 | 0.0007 | 0.0849 | 0.321 | 232.25 | 031 |
| -06.38 | -0.4495 | -0.1347 | -0.4173 | 0.3128 | 0.2645 | 0.3495 | 0.0493 | 0.0033 | 0.0120 | 0.0849 | 0.321 | 232.25 | 032 | -06.14 | -0.4309 | -0.1295 | -0.3998 | 0.3126 | 0.2680 | 0.3505 | 0.0316 | 0.0028 | 0.0004 | 0.0825 | 0.321 | 232.25 | 033 |
| -05.88 | -0.4108 | -0.1245 | -0.3813 | 0.3072 | 0.2645 | 0.3502 | 0.0312 | 0.0057 | 0.0002 | 0.0837 | 0.321 | 231.90 | 034 | -05.65 | -0.3915 | -0.1197 | -0.3634 | 0.3033 | 0.2661 | 0.3498 | 0.0346 | 0.0017 | 0.0007 | 0.0825 | 0.321 | 232.25 | 041 |
| -05.39 | -0.3728 | -0.1156 | -0.3461 | 0.3000 | 0.2662 | 0.3499 | 0.0342 | 0.0004 | 0.0004 | 0.0837 | 0.321 | 232.25 | 036 | -05.16 | -0.3543 | -0.1106 | -0.3289 | 0.2971 | 0.2663 | 0.3501 | 0.0235 | 0.0089 | 0.0003 | 0.0837 | 0.321 | 232.25 | 037 |
| -04.93 | -0.3230 | -0.1049 | -0.3001 | 0.2916 | 0.2661 | 0.3485 | 0.025 | 0.0028 | 0.0002 | 0.0825 | 0.321 | 232.25 | 038 | -04.44 | -0.3066 | -0.0965 | -0.2849 | 0.2911 | 0.2682 | 0.3494 | 0.0234 | 0.0073 | 0.0005 | 0.0825 | 0.321 | 232.25 | 040 |
| -03.20 | -0.2897 | -0.0912 | -0.2694 | 0.2876 | 0.2671 | 0.3496 | 0.0217 | 0.0017 | 0.0007 | 0.0825 | 0.321 | 232.25 | 041 | -02.81 | -0.1972 | -0.0869 | -0.2579 | 0.2869 | 0.2683 | 0.3495 | 0.0133 | 0.0013 | 0.0007 | 0.0812 | 0.321 | 232.25 | 042 |
| -03.76 | -0.2599 | -0.0813 | -0.2419 | 0.2832 | 0.2688 | 0.3493 | 0.0200 | 0.0004 | 0.0004 | 0.0825 | 0.321 | 232.25 | 043 | -02.31 | -0.2435 | -0.0768 | -0.2267 | 0.2820 | 0.2676 | 0.3501 | 0.0199 | 0.0001 | 0.0005 | 0.0825 | 0.321 | 232.25 | 044 |
| -01.91 | -0.1408 | -0.0433 | -0.1317 | 0.2804 | 0.2671 | 0.3502 | 0.0178 | 0.0017 | 0.0007 | 0.0825 | 0.321 | 232.25 | 045 | -01.67 | -0.1260 | -0.0386 | -0.1201 | 0.2718 | 0.2682 | 0.3507 | 0.0132 | 0.0013 | 0.0006 | 0.0825 | 0.321 | 232.25 | 046 |
| -01.45 | -0.1135 | -0.0341 | -0.1066 | 0.2730 | 0.2690 | 0.3515 | 0.0117 | 0.0017 | 0.0007 | 0.0825 | 0.321 | 232.25 | 047 | -01.23 | -0.0987 | -0.0296 | -0.0928 | 0.2719 | 0.2686 | 0.3511 | 0.0174 | 0.0026 | 0.0001 | 0.0812 | 0.321 | 232.25 | 048 |
| -00.99 | -0.0840 | -0.0254 | -0.0794 | 0.2720 | 0.2706 | 0.3518 | 0.0133 | 0.0013 | 0.0005 | 0.0813 | 0.321 | 232.25 | 049 | -00.76 | -0.0694 | -0.0202 | -0.0659 | 0.2707 | 0.2698 | 0.3510 | 0.0085 | 0.0019 | 0.0002 | 0.0812 | 0.321 | 232.25 | 050 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSWT TEST 8' | | | | | |
|---|---------|----------|---------|--------|----------|--------|---------|---------|---------|--------------|---------|--------|--------|-----|-----|
| RUN | MACH NO | MACH NO | RNL | RNL | 21848648 | Q | 2504 | PSF | TO | 556 | 10/7/62 | AB | CP | P0 | PNT |
| COEFFICIENTS | | | | | | | | | | | | | | | |
| ALPHA | N | PM | L | D | A | AU | Y | VH | RM | AB | CP | P0 | PNT | | |
| -00.52 | -0.0546 | -0.0-161 | -0.0221 | 0.2734 | 0.2729 | 0.3517 | 0.0064 | -0.0076 | -0.0001 | 0.0786 | 0.986 | 232.40 | 057 | | |
| -00.30 | -0.0400 | -0.0-115 | -0.0285 | 0.2709 | 0.2707 | 0.3520 | 0.0063 | -0.0081 | -0.0006 | 0.0813 | 0.773 | 232.0 | 058 | | |
| -00.08 | -0.0252 | -0.0-072 | -0.0157 | 0.2715 | 0.2709 | 0.3522 | 0.0061 | -0.0087 | -0.0002 | 0.0812 | 0.052 | 232.25 | 059 | | |
| 00.16 | -0.0149 | -0.0-029 | -0.0157 | 0.2709 | 0.2709 | 0.3522 | 0.0061 | -0.0092 | -0.0006 | 0.0813 | 0.933 | 232.60 | 060 | | |
| 00.35 | -0.0023 | 00.011 | -0.0039 | 0.2725 | 0.2725 | 0.3537 | 0.0060 | -0.0148 | -0.0003 | 0.0812 | -14.945 | 232.25 | 061 | | |
| 00.60 | 0.0127 | 00.052 | 0.0099 | 0.2714 | 0.2713 | 0.3538 | 0.0059 | -0.0152 | -0.0004 | 0.0835 | 12.301 | 232.25 | 062 | | |
| 00.85 | 0.0232 | 00.103 | 0.0191 | 0.2735 | 0.2732 | 0.3532 | 0.0059 | -0.0107 | -0.0005 | 0.0800 | 13.557 | 231.90 | 063 | | |
| 01.05 | 0.0426 | 00.144 | 0.0376 | 0.2721 | 0.2714 | 0.3539 | 0.0025 | -0.0113 | -0.0001 | 0.0835 | 10.268 | 232.25 | 064 | | |
| 01.29 | 0.0553 | 00.190 | 0.0491 | 0.2737 | 0.2726 | 0.3538 | 0.0020 | -0.0118 | -0.0000 | 0.0812 | 10.433 | 232.25 | 065 | | |
| 01.52 | 0.0703 | 00.236 | 0.0630 | 0.2734 | 0.2716 | 0.3528 | 0.0015 | -0.0172 | -0.0002 | 0.0812 | 10.204 | 232.25 | 066 | | |
| 01.77 | 0.0951 | 00.288 | 0.0768 | 0.2728 | 0.2703 | 0.3528 | -0.0010 | -0.0177 | -0.0003 | 0.0825 | 10.268 | 232.25 | 067 | | |
| 01.99 | 0.1000 | 00.334 | 0.0904 | 0.2778 | 0.2745 | 0.3557 | -0.0015 | -0.0137 | -0.0000 | 0.0812 | 10.141 | 232.25 | 068 | | |
| 02.21 | 0.1128 | 00.380 | 0.1032 | 0.2767 | 0.2729 | 0.3538 | -0.0020 | -0.0139 | -0.0001 | 0.0812 | 10.237 | 232.25 | 069 | | |
| 02.46 | 0.1302 | 00.427 | 0.1182 | 0.2812 | 0.2759 | 0.3571 | -0.0064 | -0.0198 | -0.0001 | 0.0812 | 0.959 | 231.90 | 070 | | |
| 02.68 | 0.1464 | 00.478 | 0.1274 | 0.2787 | 0.2725 | 0.3537 | -0.0010 | -0.0151 | -0.0003 | 0.0812 | 10.343 | 232.25 | 071 | | |
| 02.90 | 0.1599 | 00.525 | 0.1458 | 0.2816 | 0.2739 | 0.3563 | -0.0035 | -0.0159 | -0.0002 | 0.0823 | 0.971 | 231.90 | 072 | | |
| 03.13 | 0.1745 | 00.576 | 0.1593 | 0.2837 | 0.2746 | 0.3558 | -0.0020 | -0.0165 | -0.0004 | 0.0812 | 10.025 | 232.25 | 073 | | |
| 03.35 | 0.1895 | 00.622 | 0.1732 | 0.2860 | 0.2734 | 0.3559 | -0.0025 | -0.0170 | -0.0004 | 0.0825 | 0.975 | 232.25 | 074 | | |
| 03.57 | 0.0684 | 00.675 | 0.1894 | 0.2857 | 0.2734 | 0.3549 | -0.0015 | -0.0126 | -0.0012 | 0.0816 | 0.916 | 231.90 | 075 | | |
| 03.81 | 0.2192 | 00.726 | 0.2004 | 0.2866 | 0.2727 | 0.3539 | -0.0057 | -0.0179 | -0.0005 | 0.0812 | 10.057 | 232.25 | 076 | | |
| 04.04 | 0.2410 | 00.779 | 0.2211 | 0.2904 | 0.2742 | 0.3566 | -0.0083 | -0.0139 | -0.0006 | 0.0823 | 0.919 | 231.90 | 077 | | |
| 04.28 | 0.2542 | 00.826 | 0.2331 | 0.2912 | 0.2730 | 0.3542 | -0.0069 | -0.0190 | -0.0006 | 0.0812 | 0.876 | 231.55 | 078 | | |
| 04.52 | 0.2687 | 00.871 | 0.2463 | 0.2938 | 0.2734 | 0.3546 | -0.0074 | -0.0197 | -0.0006 | 0.0812 | 0.849 | 231.90 | 079 | | |
| 04.75 | 0.2958 | 00.923 | 0.2622 | 0.2962 | 0.2735 | 0.3547 | -0.0079 | -0.0203 | -0.0007 | 0.0812 | 0.813 | 231.90 | 080 | | |
| 04.98 | 0.2916 | 00.975 | 0.2739 | 0.2970 | 0.2721 | 0.3545 | -0.0070 | -0.0209 | -0.0015 | 0.0825 | 0.945 | 231.90 | 081 | | |
| 05.24 | 0.3119 | 01.021 | 0.2916 | 0.3014 | 0.2735 | 0.3548 | -0.0110 | -0.0215 | -0.0017 | 0.0812 | 0.971 | 231.90 | 082 | | |
| 05.44 | 0.3312 | 01.073 | 0.3095 | 0.3067 | 0.2759 | 0.3559 | -0.0112 | -0.0223 | -0.0017 | 0.0800 | 0.472 | 231.90 | 083 | | |
| 05.70 | 0.3660 | 01.118 | 0.3271 | 0.3073 | 0.2733 | 0.3546 | -0.0154 | -0.0227 | -0.0021 | 0.0812 | 0.541 | 232.25 | 084 | | |
| 05.95 | 0.3735 | 01.177 | 0.3430 | 0.3122 | 0.2749 | 0.3562 | -0.0096 | -0.0226 | -0.0020 | 0.0812 | 0.577 | 231.90 | 085 | | |
| 06.16 | 0.3950 | 01.230 | 0.3632 | 0.3151 | 0.2743 | 0.3556 | -0.0078 | -0.0224 | -0.0022 | 0.0812 | 0.458 | 231.90 | 086 | | |
| 06.45 | 0.4210 | 01.276 | 0.3876 | 0.3189 | 0.2734 | 0.3558 | -0.0160 | -0.0247 | -0.0023 | 0.0825 | 0.208 | 231.90 | 087 | | |
| 06.65 | 0.4455 | 01.322 | 0.4016 | 0.3223 | 0.2748 | 0.3553 | -0.0123 | -0.0252 | -0.0022 | 0.0825 | 0.078 | 231.90 | 088 | | |
| 06.89 | 0.4639 | 01.380 | 0.4276 | 0.3286 | 0.2734 | 0.3574 | -0.0104 | -0.0263 | -0.0023 | 0.0825 | 0.037 | 231.90 | 089 | | |
| 07.12 | 0.4830 | 01.437 | 0.4453 | 0.3319 | 0.2742 | 0.3567 | -0.0087 | -0.0219 | -0.0029 | 0.0825 | 0.041 | 231.90 | 090 | | |
| 07.40 | 0.5120 | 01.480 | 0.4725 | 0.3376 | 0.2740 | 0.3576 | -0.0109 | -0.0215 | -0.0031 | 0.0837 | 0.782 | 231.55 | 091 | | |
| 07.61 | 0.5335 | 01.532 | 0.4920 | 0.3465 | 0.2783 | 0.3608 | -0.0089 | -0.0225 | -0.0033 | 0.0825 | 0.725 | 231.55 | 092 | | |
| 07.87 | 0.5662 | 01.567 | 0.5229 | 0.3519 | 0.2770 | 0.3607 | -0.0073 | -0.0260 | -0.0035 | 0.0837 | 0.411 | 231.55 | 093 | | |
| 08.10 | 0.5816 | 01.631 | 0.5427 | 0.3569 | 0.2769 | 0.3618 | -0.0053 | -0.0249 | -0.0037 | 0.0849 | 0.433 | 231.55 | 094 | | |
| 08.34 | 0.6126 | 01.681 | 0.5660 | 0.3624 | 0.2765 | 0.3626 | -0.0056 | -0.0258 | -0.0046 | 0.0862 | 0.335 | 231.90 | 095 | | |
| 08.60 | 0.6310 | 01.741 | 0.5882 | 0.3607 | 0.2786 | 0.3635 | -0.0058 | -0.0267 | -0.0041 | 0.0862 | 0.050 | 0.074 | 0.90 | | |
| 08.78 | 0.6639 | 01.790 | 0.6136 | 0.3765 | 0.2784 | 0.3646 | -0.0077 | -0.0242 | -0.0045 | 0.0862 | 0.0849 | 0.302 | 231.55 | 096 | |
| 09.07 | 0.6917 | 01.843 | 0.6392 | 0.3833 | 0.2778 | 0.3652 | -0.0057 | -0.0295 | -0.0046 | 0.0874 | 0.193 | 231.90 | 097 | | |
| 09.30 | 0.7235 | 01.897 | 0.6659 | 0.3921 | 0.2793 | 0.3654 | -0.0038 | -0.0307 | -0.0043 | 0.0862 | 0.001 | 231.55 | 098 | | |
| 09.53 | 0.7440 | 01.950 | 0.6870 | 0.4009 | 0.2816 | 0.3678 | -0.0036 | -0.0323 | -0.0046 | 0.0862 | 0.961 | 231.55 | 100 | | |
| 09.74 | 0.7615 | 01.998 | 0.7089 | 0.4066 | 0.2809 | 0.3683 | -0.0036 | -0.0335 | -0.0043 | 0.0862 | 0.335 | 231.55 | 101 | | |
| 09.92 | 0.7921 | 02.051 | 0.7317 | 0.4142 | 0.2820 | 0.3694 | -0.0015 | -0.0348 | -0.0045 | 0.0874 | 0.867 | 231.21 | 102 | | |
| 10.12 | 0.8123 | 02.089 | 0.7501 | 0.4202 | 0.2819 | 0.3693 | -0.0015 | -0.0359 | -0.0050 | 0.0875 | 0.811 | 231.55 | 103 | | |
| 10.27 | 0.8312 | 02.127 | 0.7735 | 0.4269 | 0.2822 | 0.3696 | -0.0004 | -0.0368 | -0.0050 | 0.0874 | 0.717 | 231.21 | 104 | | |
| 10.42 | 0.8533 | 02.167 | 0.7893 | 0.4311 | 0.2813 | 0.3699 | -0.0004 | -0.0377 | -0.0049 | 0.0886 | 0.656 | 231.21 | 105 | | |
| 10.56 | 0.8715 | 02.196 | 0.8049 | 0.4379 | 0.2829 | 0.3703 | 0.0005 | -0.0434 | 0.0046 | 0.0887 | 0.656 | 231.21 | 106 | | |
| 10.71 | 0.8843 | 02.231 | 0.8163 | 0.4421 | 0.2827 | 0.3714 | -0.0014 | -0.0443 | 0.0049 | 0.0886 | 0.656 | 231.21 | 107 | | |

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89

HSWT TEST 89

RUN 026 MACH NO 3.980 RNL 21848648 Q 2504 PSF TO 556

10/17/62

| ALPHA | COEFFICIENTS | | | | | | | | | | | | PO | PNT |
|-------|--------------|----------------|--------|--------|--------|--------|----------|------------|----------------|----------------|----------------|--------|-----|-----|
| | N | P _H | L | D | A | AU | γ | γ_M | R _M | A _B | C _P | | | |
| 10.88 | 0.8982 | 02.269 | 0.8285 | 0.4483 | 0.2839 | 0.3712 | 0.0025 | -0.0402 | 0.0048 | 0.0874 | 07.675 | 230.86 | 108 | |
| 11.06 | 0.9242 | 02.304 | 0.8525 | 0.4562 | 0.2843 | 0.3729 | 0.0045 | -0.0413 | 0.0048 | 0.0886 | 07.575 | 230.86 | 109 | |
| 11.29 | 0.9463 | 02.353 | 0.8721 | 0.4651 | 0.2854 | 0.3728 | 0.0026 | -0.0424 | 0.0046 | 0.0874 | 07.554 | 231.21 | 110 | |
| 11.47 | 0.9736 | 02.392 | 0.8971 | 0.4746 | 0.2867 | 0.3741 | 0.0086 | -0.0436 | 0.0049 | 0.0874 | 07.463 | 230.86 | 111 | |
| 11.62 | 0.9928 | 02.438 | 0.9146 | 0.4810 | 0.2869 | 0.3755 | 0.0087 | -0.0448 | 0.0048 | 0.0886 | 07.461 | 230.86 | 112 | |
| 11.72 | 1.0058 | 02.461 | 0.9265 | 0.4854 | 0.2871 | 0.3757 | 0.0046 | -0.0454 | 0.0050 | 0.0886 | 07.435 | 230.86 | 113 | |
| 11.78 | 1.0202 | 02.483 | 0.9399 | 0.4904 | 0.2882 | 0.3768 | 0.0107 | -0.0460 | 0.0048 | 0.0886 | 07.393 | 230.51 | 114 | |
| 11.81 | 1.0272 | 02.497 | 0.9466 | 0.4915 | 0.2873 | 0.3746 | 0.0105 | -0.0412 | 0.0050 | 0.0874 | 07.384 | 230.86 | 115 | |
| 11.85 | 1.0337 | 02.508 | 0.9529 | 0.4923 | 0.2862 | 0.3748 | 0.0126 | -0.0465 | 0.0054 | 0.0886 | 07.372 | 230.86 | 116 | |
| 11.87 | 1.0375 | 02.506 | 0.9558 | 0.4963 | 0.2890 | 0.3764 | 0.0106 | -0.0416 | 0.0055 | 0.0874 | 07.339 | 230.51 | 117 | |
| 11.88 | 1.0373 | 02.518 | 0.9556 | 0.4963 | 0.2890 | 0.3764 | 0.0126 | -0.0418 | 0.0051 | 0.0874 | 07.374 | 230.51 | 118 | |
| 11.87 | 1.0368 | 02.516 | 0.9555 | 0.4944 | 0.2872 | 0.3758 | 0.0106 | -0.0466 | 0.0053 | 0.0886 | 07.371 | 230.17 | 119 | |
| 11.90 | 1.0345 | 02.521 | 0.9528 | 0.4952 | 0.2881 | 0.3767 | 0.0106 | -0.0419 | 0.0055 | 0.0886 | 07.405 | 230.17 | 120 | |
| 00.14 | 0.0275 | 00.013 | 0.0268 | 0.2756 | 0.3577 | 0.0049 | -0.0087 | 0.0001 | 0.0822 | 01.418 | 221.49 | | 121 | |

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89
 RUN 027 MACH NO 2.990 RNL 14158488 Q 2457 PSF TO 582

| COEFFICIENTS | | | | | | | | | | | | HSWT TEST 89 | | | | | |
|--------------|---------|---------|---------|--------|--------|--------|---------|---------|---------|--------|--------|--------------|-----|-----|--|--|--|
| ALPHA | N | PM | L | D | A | AU | Y | YM | RW | AB | CP | PD | P0 | PNT | | | |
| 00.27 | 0.0331 | 00.0316 | 0.0316 | 0.3184 | 0.4402 | 0.0334 | -0.0204 | -0.0012 | 0.1219 | 03.285 | 099.10 | 006 | | | | | |
| -11.76 | -1.032 | -0.690 | -0.9874 | 0.5102 | 0.4470 | 0.0505 | -0.0003 | 0.1368 | 0.614 | 098.40 | 007 | | | | | | |
| -11.65 | -1.0322 | -0.666 | -0.9771 | 0.5104 | 0.4471 | 0.0522 | -0.0004 | 0.1368 | 0.624 | 098.40 | 008 | | | | | | |
| -11.48 | -1.0402 | -0.630 | -0.9579 | 0.5099 | 0.3091 | 0.4447 | 0.0784 | 0.0318 | -0.0001 | 0.1356 | 0.681 | 098.40 | 009 | | | | |
| -11.28 | -1.0487 | -0.586 | -0.9387 | 0.5017 | 0.3084 | 0.4440 | 0.0769 | 0.0255 | -0.0008 | 0.1356 | 0.706 | 098.58 | 010 | | | | |
| -11.05 | -1.0599 | -0.551 | -0.9145 | 0.4923 | 0.3079 | 0.4435 | 0.0754 | 0.0283 | -0.0006 | 0.1356 | 0.781 | 098.40 | 011 | | | | |
| -10.84 | -1.0596 | -0.489 | -0.8848 | 0.4812 | 0.3061 | 0.4417 | 0.0796 | 0.0362 | -0.0003 | 0.1356 | 0.879 | 098.58 | 012 | | | | |
| -10.61 | -0.905 | -0.2433 | -0.8580 | 0.4735 | 0.3074 | 0.4429 | 0.0725 | 0.0281 | -0.0005 | 0.1356 | 0.944 | 098.40 | 013 | | | | |
| -10.38 | -0.898 | -0.2380 | -0.8299 | 0.4632 | 0.3061 | 0.4416 | 0.0730 | 0.0255 | -0.0005 | 0.1356 | 0.934 | 098.40 | 014 | | | | |
| -10.15 | -0.8714 | -0.2326 | -0.8035 | 0.4568 | 0.3081 | 0.4424 | 0.0755 | 0.0331 | -0.0003 | 0.1363 | 0.810 | 098.40 | 015 | | | | |
| -09.89 | -0.8391 | -0.2268 | -0.7739 | 0.4463 | 0.3067 | 0.4410 | 0.0699 | 0.0252 | 0.0001 | 0.1363 | 0.813 | 098.58 | 016 | | | | |
| -09.66 | -0.8010 | -0.2217 | -0.7444 | 0.4359 | 0.3047 | 0.4391 | 0.0723 | 0.0228 | -0.0003 | 0.1344 | 0.846 | 098.75 | 017 | | | | |
| -09.41 | -0.7742 | -0.2157 | -0.7138 | 0.4280 | 0.3056 | 0.4387 | 0.0710 | 0.0148 | -0.0006 | 0.1331 | 0.866 | 098.75 | 018 | | | | |
| -09.15 | -0.726 | -0.2102 | -0.6845 | 0.4204 | 0.3063 | 0.4381 | 0.0697 | 0.0069 | -0.0000 | 0.1310 | 0.859 | 098.58 | 019 | | | | |
| -08.91 | -0.7071 | -0.204 | -0.6512 | 0.4115 | 0.3056 | 0.4362 | 0.0730 | 0.0255 | -0.0002 | 0.1307 | 0.868 | 098.92 | 020 | | | | |
| -08.69 | -0.6791 | -0.1988 | -0.6250 | 0.4054 | 0.3063 | 0.4357 | 0.0642 | 0.0020 | -0.0003 | 0.1294 | 0.892 | 098.92 | 021 | | | | |
| -08.43 | -0.6493 | -0.1923 | -0.5977 | 0.3964 | 0.3045 | 0.4339 | 0.0596 | 0.0006 | -0.0005 | 0.1294 | 0.995 | 098.92 | 022 | | | | |
| -08.17 | -0.6136 | -0.1772 | -0.5274 | 0.3784 | 0.3039 | 0.4295 | 0.0560 | 0.0026 | 0.0003 | 0.1256 | 0.928 | 098.75 | 025 | | | | |
| -07.52 | -0.5436 | -0.1718 | -0.4992 | 0.3724 | 0.3039 | 0.4282 | 0.0531 | 0.0072 | -0.0000 | 0.1263 | 0.963 | 098.75 | 026 | | | | |
| -07.27 | -0.5190 | -0.1662 | -0.4762 | 0.3688 | 0.3056 | 0.4273 | 0.0483 | 0.0066 | 0.0002 | 0.1218 | 0.928 | 098.58 | 027 | | | | |
| -07.06 | -0.4978 | -0.1609 | -0.4567 | 0.3622 | 0.3057 | 0.4256 | 0.0460 | 0.0040 | 0.0001 | 0.1218 | 0.818 | 098.58 | 028 | | | | |
| -06.81 | -0.4736 | -0.1547 | -0.4362 | 0.3584 | 0.3044 | 0.4249 | 0.0462 | 0.0048 | 0.0007 | 0.1206 | 0.923 | 098.75 | 029 | | | | |
| -06.54 | -0.4531 | -0.1502 | -0.4152 | 0.3566 | 0.3069 | 0.4249 | 0.0404 | -0.0052 | -0.0002 | 0.1180 | 1.073 | 098.58 | 030 | | | | |
| -06.38 | -0.4330 | -0.1459 | -0.3954 | 0.3512 | 0.3052 | 0.4244 | 0.0396 | 0.0044 | 0.0002 | 0.1192 | 1.0190 | 098.58 | 031 | | | | |
| -06.11 | -0.4096 | -0.1387 | -0.3746 | 0.3484 | 0.3066 | 0.4245 | 0.0389 | 0.0089 | -0.0004 | 0.1179 | 1.0284 | 098.40 | 032 | | | | |
| -05.85 | -0.3926 | -0.1333 | -0.3593 | 0.3446 | 0.3062 | 0.4241 | 0.0306 | -0.0123 | -0.0010 | 0.1179 | 1.0316 | 098.40 | 033 | | | | |
| -05.64 | -0.3712 | -0.1286 | -0.3393 | 0.3416 | 0.3065 | 0.4244 | 0.0300 | -0.0129 | -0.0010 | 0.1179 | 1.0522 | 098.40 | 034 | | | | |
| -05.41 | -0.3554 | -0.1238 | -0.3238 | 0.3397 | 0.3076 | 0.4236 | 0.0295 | -0.0085 | -0.0008 | 0.1179 | 1.0618 | 098.40 | 035 | | | | |
| -05.15 | -0.3399 | -0.1180 | -0.3109 | 0.3368 | 0.3075 | 0.4254 | 0.0250 | -0.0092 | -0.0010 | 0.1179 | 1.0544 | 098.60 | 036 | | | | |
| -04.92 | -0.3225 | -0.1130 | -0.2948 | 0.3346 | 0.3081 | 0.4248 | 0.0244 | -0.0046 | -0.0013 | 0.1167 | 1.0649 | 098.58 | 037 | | | | |
| -04.69 | -0.3054 | -0.1081 | -0.2792 | 0.3319 | 0.3079 | 0.4259 | 0.0245 | -0.0054 | -0.0004 | 0.1179 | 1.0810 | 098.58 | 038 | | | | |
| -04.46 | -0.2922 | -0.1022 | -0.2673 | 0.3307 | 0.3090 | 0.4270 | 0.0222 | -0.0165 | -0.0014 | 0.1179 | 1.0631 | 098.75 | 039 | | | | |
| -04.20 | -0.2754 | -0.0977 | -0.2519 | 0.3294 | 0.3100 | 0.4280 | 0.0221 | -0.0171 | -0.0014 | 0.1180 | 1.0779 | 098.58 | 040 | | | | |
| -03.98 | -0.2600 | -0.0923 | -0.2378 | 0.3227 | 0.3104 | 0.4284 | 0.0226 | -0.0127 | -0.0013 | 0.1181 | 1.0780 | 098.75 | 041 | | | | |
| -03.73 | -0.2472 | -0.0864 | -0.2266 | 0.3227 | 0.3103 | 0.4284 | 0.0179 | -0.0185 | -0.0011 | 0.1181 | 1.0614 | 098.75 | 042 | | | | |
| -03.50 | -0.2300 | -0.0823 | -0.2104 | 0.3207 | 0.3126 | 0.4307 | 0.0179 | -0.0142 | -0.0014 | 0.1181 | 1.0866 | 098.75 | 043 | | | | |
| -03.25 | -0.2150 | -0.0770 | -0.1969 | 0.3225 | 0.3128 | 0.4309 | 0.0119 | -0.0192 | -0.0011 | 0.1181 | 1.0958 | 098.75 | 044 | | | | |
| -03.03 | -0.2000 | -0.0723 | -0.1832 | 0.3228 | 0.3127 | 0.4320 | 0.0158 | -0.0155 | -0.0015 | 0.1193 | 1.0977 | 098.75 | 045 | | | | |
| -02.80 | -0.1823 | -0.0680 | -0.1668 | 0.3218 | 0.3132 | 0.4326 | 0.0135 | -0.0110 | -0.0009 | 0.1194 | 1.1330 | 098.92 | 046 | | | | |
| -02.56 | -0.1721 | -0.0623 | -0.1579 | 0.3209 | 0.3135 | 0.4341 | 0.0158 | -0.0123 | -0.0013 | 0.1206 | 1.1003 | 098.75 | 047 | | | | |
| -02.33 | -0.1570 | -0.0571 | -0.1461 | 0.3207 | 0.3146 | 0.4352 | 0.0138 | -0.0134 | -0.0014 | 0.1206 | 1.1044 | 098.75 | 048 | | | | |
| -02.13 | -0.1331 | -0.0530 | -0.1233 | 0.3179 | 0.3131 | 0.4337 | 0.0118 | -0.0192 | -0.0018 | 0.1206 | 1.1914 | 098.75 | 049 | | | | |
| -01.91 | -0.1288 | -0.0483 | -0.1183 | 0.3180 | 0.3138 | 0.4344 | 0.0119 | -0.0202 | -0.0018 | 0.1206 | 1.1397 | 098.75 | 050 | | | | |
| -01.67 | -0.1160 | -0.0425 | -0.1068 | 0.3190 | 0.3157 | 0.4363 | 0.0099 | -0.0164 | -0.0011 | 0.1206 | 1.132 | 098.75 | 051 | | | | |
| -01.43 | -0.1031 | -0.0385 | -0.0952 | 0.3170 | 0.3145 | 0.4364 | 0.0120 | -0.0173 | -0.0015 | 0.1206 | 1.1335 | 098.75 | 052 | | | | |
| -01.23 | -0.0881 | -0.0338 | -0.0812 | 0.3187 | 0.3168 | 0.4373 | 0.0099 | -0.0132 | -0.0009 | 0.1205 | 1.1674 | 098.58 | 053 | | | | |
| -00.88 | -0.0727 | -0.0286 | -0.0678 | 0.3169 | 0.3159 | 0.4364 | 0.0101 | -0.0194 | -0.0011 | 0.1206 | 1.1936 | 098.75 | 054 | | | | |
| -00.72 | -0.0559 | -0.0239 | -0.0560 | 0.3144 | 0.3136 | 0.4354 | 0.0100 | -0.0201 | -0.0011 | 0.1206 | 1.2136 | 098.58 | 055 | | | | |
| -00.52 | -0.0471 | -0.0193 | -0.0442 | 0.3152 | 0.3148 | 0.4365 | 0.0100 | -0.0159 | -0.0014 | 0.1218 | 1.2436 | 098.58 | 056 | | | | |
| -00.28 | -0.0384 | -0.0140 | -0.0349 | 0.3148 | 0.3146 | 0.4364 | 0.0080 | -0.0170 | -0.0010 | 0.1218 | 1.2121 | 098.58 | 057 | | | | |
| -00.06 | -0.0190 | -0.0094 | -0.0186 | 0.3158 | 0.3158 | 0.4376 | 0.0060 | -0.0180 | -0.0011 | 0.1218 | 1.2436 | 098.58 | 058 | | | | |

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 69
RUN 027 MACH NO 2.990 RNL 14150488 Q 2457 PSF TO 582

COEFFICIENTS

| ALPHA | N | P _M | L | D | A | A _U | V | Y _M | R _M | AB | C _P | P _O | P _N |
|-------|---------|----------------|---------|--------|--------|----------------|---------|----------------|----------------|--------|----------------|----------------|----------------|
| 00.16 | -0.0063 | -0.0035 | -0.0071 | 0.3161 | 0.3161 | 0.4366 | 0.0081 | -0.0190 | -0.0015 | 0.1205 | 17.198 | 098.58 | 059 |
| 00.36 | 0.0088 | 0.0006 | 0.0067 | 0.3139 | 0.3138 | 0.4368 | 0.0058 | -0.0144 | -0.0013 | 0.1230 | 02.145 | 098.58 | 060 |
| 00.60 | 0.0217 | 0.0053 | 0.0184 | 0.3134 | 0.3132 | 0.4360 | 0.0053 | -0.0148 | -0.0007 | 0.1218 | 07.466 | 098.75 | 061 |
| 00.85 | 0.0368 | 0.0101 | 0.0321 | 0.3175 | 0.3170 | 0.4387 | 0.0071 | -0.0157 | -0.0011 | 0.1218 | 08.311 | 098.58 | 062 |
| 01.07 | 0.0475 | 0.0148 | 0.0416 | 0.3148 | 0.3140 | 0.4358 | 0.0067 | -0.0210 | -0.0007 | 0.1218 | 09.440 | 098.75 | 063 |
| 01.30 | 0.0606 | 0.0201 | 0.0534 | 0.3159 | 0.3146 | 0.4364 | 0.0022 | -0.0260 | -0.0007 | 0.1218 | 10.077 | 098.58 | 064 |
| 01.55 | 0.0756 | 0.0248 | 0.0671 | 0.3170 | 0.3151 | 0.4356 | 0.0017 | -0.0271 | -0.0006 | 0.1206 | 09.960 | 098.75 | 065 |
| 01.77 | 0.0909 | 0.0296 | 0.0811 | 0.3196 | 0.3169 | 0.4374 | 0.0034 | -0.0278 | -0.0004 | 0.1205 | 09.882 | 098.58 | 066 |
| 01.99 | 0.1036 | 0.0342 | 0.0926 | 0.3194 | 0.3160 | 0.4366 | 0.0011 | -0.0232 | -0.0004 | 0.1206 | 10.036 | 098.75 | 067 |
| 02.24 | 0.1167 | 0.0396 | 0.1043 | 0.3110 | 0.3167 | 0.4372 | -0.0015 | -0.0289 | -0.0000 | 0.1205 | 10.304 | 098.58 | 068 |
| 02.46 | 0.1294 | 0.0442 | 0.1158 | 0.3191 | 0.3138 | 0.4364 | -0.0040 | -0.0341 | -0.0008 | 0.1206 | 10.383 | 098.75 | 069 |
| 02.68 | 0.1402 | 0.0484 | 0.1253 | 0.3218 | 0.3156 | 0.4362 | -0.0042 | -0.0348 | -0.0003 | 0.1206 | 10.480 | 098.75 | 070 |
| 02.90 | 0.1506 | 0.0536 | 0.1344 | 0.3242 | 0.3170 | 0.4352 | -0.0046 | -0.0403 | -0.0005 | 0.1181 | 10.805 | 098.92 | 071 |
| 03.14 | 0.1701 | 0.0583 | 0.1525 | 0.3249 | 0.3160 | 0.4354 | -0.0031 | -0.0360 | -0.0005 | 0.1194 | 10.411 | 098.92 | 072 |
| 03.36 | 0.1833 | 0.0637 | 0.1643 | 0.3283 | 0.3180 | 0.4361 | -0.0036 | -0.0366 | -0.0004 | 0.1181 | 10.560 | 098.75 | 073 |
| 03.58 | 0.1991 | 0.0683 | 0.1780 | 0.3271 | 0.3153 | 0.4334 | -0.0020 | -0.0419 | -0.0005 | 0.1181 | 10.476 | 098.92 | 074 |
| 03.83 | 0.2085 | 0.0748 | 0.1870 | 0.3283 | 0.3151 | 0.4332 | -0.0045 | -0.0324 | -0.0001 | 0.1181 | 10.894 | 098.92 | 075 |
| 04.51 | 0.2538 | 0.0883 | 0.2283 | 0.3343 | 0.3143 | 0.4324 | -0.0082 | -0.0289 | -0.0008 | 0.1181 | 10.573 | 098.92 | 076 |
| 04.71 | 0.2716 | 0.0944 | 0.2448 | 0.3354 | 0.3142 | 0.4322 | -0.0085 | -0.0347 | -0.0011 | 0.1181 | 10.557 | 098.75 | 077 |
| 04.99 | 0.2927 | 0.0998 | 0.2543 | 0.3371 | 0.3137 | 0.4317 | -0.0089 | -0.0403 | -0.0015 | 0.1180 | 10.728 | 098.58 | 080 |
| 05.00 | 0.2995 | 0.1050 | 0.2699 | 0.3301 | 0.3143 | 0.4311 | -0.0094 | -0.0407 | -0.0010 | 0.1168 | 10.646 | 098.75 | 081 |
| 05.43 | 0.3219 | 0.1111 | 0.2909 | 0.3221 | 0.3130 | 0.4310 | -0.0119 | -0.0465 | -0.0012 | 0.1180 | 10.482 | 098.58 | 082 |
| 05.66 | 0.3371 | 0.1158 | 0.3045 | 0.3251 | 0.3134 | 0.4302 | -0.0100 | -0.0469 | -0.0015 | 0.1167 | 10.438 | 098.58 | 083 |
| 05.86 | 0.3520 | 0.1223 | 0.3181 | 0.3278 | 0.3135 | 0.4302 | -0.0102 | -0.0376 | -0.0016 | 0.1167 | 10.556 | 098.58 | 084 |
| 06.18 | 0.3782 | 0.1277 | 0.3424 | 0.3315 | 0.3126 | 0.4306 | -0.0083 | -0.0383 | -0.0018 | 0.1180 | 10.255 | 098.58 | 085 |
| 06.41 | 0.4003 | 0.1330 | 0.3629 | 0.3355 | 0.3128 | 0.4308 | -0.0085 | -0.0441 | -0.0021 | 0.1180 | 10.091 | 098.58 | 086 |
| 06.64 | 0.4222 | 0.1388 | 0.3888 | 0.3318 | 0.3118 | 0.4310 | -0.0090 | -0.0396 | -0.0018 | 0.1192 | 09.990 | 098.58 | 087 |
| 06.90 | 0.4390 | 0.1433 | 0.3985 | 0.3618 | 0.3113 | 0.4294 | -0.0112 | -0.0400 | -0.0018 | 0.1181 | 09.915 | 098.75 | 088 |
| 07.13 | 0.4609 | 0.1491 | 0.4187 | 0.3661 | 0.3113 | 0.4306 | -0.0094 | -0.0409 | -0.0020 | 0.1193 | 09.831 | 098.75 | 089 |
| 07.39 | 0.4882 | 0.1547 | 0.4442 | 0.3714 | 0.3112 | 0.4317 | -0.0118 | -0.0417 | -0.0024 | 0.1204 | 09.627 | 098.58 | 090 |
| 07.59 | 0.5125 | 0.1594 | 0.4670 | 0.3754 | 0.3104 | 0.4322 | -0.0141 | -0.0372 | -0.0026 | 0.1218 | 09.451 | 098.58 | 091 |
| 07.86 | 0.5381 | 0.1650 | 0.4907 | 0.3805 | 0.3099 | 0.4317 | -0.0103 | -0.0481 | -0.0029 | 0.1218 | 09.318 | 098.75 | 092 |
| 08.09 | 0.5666 | 0.1698 | 0.4957 | 0.3854 | 0.3097 | 0.4343 | -0.0106 | -0.0440 | -0.0032 | 0.1256 | 09.100 | 098.75 | 093 |
| 08.35 | 0.5920 | 0.1765 | 0.5408 | 0.3914 | 0.3087 | 0.4342 | -0.0109 | -0.0498 | -0.0035 | 0.1255 | 09.060 | 098.58 | 094 |
| 08.58 | 0.6159 | 0.1818 | 0.5628 | 0.3983 | 0.3098 | 0.4366 | -0.0088 | -0.0514 | -0.0036 | 0.1268 | 08.969 | 098.58 | 095 |
| 08.77 | 0.6477 | 0.1868 | 0.5928 | 0.4060 | 0.3108 | 0.4317 | -0.0077 | -0.0578 | -0.0042 | 0.1268 | 08.763 | 098.75 | 096 |
| 09.06 | 0.6770 | 0.1942 | 0.6197 | 0.4128 | 0.3101 | 0.4381 | -0.0069 | -0.0495 | -0.0039 | 0.1280 | 08.717 | 098.58 | 097 |
| 09.30 | 0.7109 | 0.1992 | 0.6516 | 0.4195 | 0.3086 | 0.4393 | -0.0050 | -0.0510 | -0.0039 | 0.1306 | 08.514 | 098.75 | 098 |
| 10.40 | 0.8525 | 0.2275 | 0.7827 | 0.4580 | 0.3092 | 0.4346 | -0.0036 | -0.0532 | -0.0037 | 0.1344 | 08.109 | 098.75 | 104 |
| 10.55 | 0.7367 | 0.2051 | 0.6734 | 0.4265 | 0.3091 | 0.4397 | -0.0070 | -0.0473 | -0.0039 | 0.1306 | 08.481 | 098.75 | 099 |
| 10.69 | 0.7653 | 0.2104 | 0.7020 | 0.4337 | 0.3087 | 0.4405 | -0.0051 | -0.0487 | -0.0039 | 0.1319 | 08.354 | 098.75 | 100 |
| 10.92 | 0.7907 | 0.2155 | 0.7253 | 0.4426 | 0.3110 | 0.4429 | -0.0030 | -0.0501 | -0.0038 | 0.1318 | 08.281 | 098.58 | 101 |
| 10.12 | 0.8134 | 0.2193 | 0.7461 | 0.4489 | 0.3107 | 0.4426 | -0.0031 | -0.0512 | -0.0042 | 0.1319 | 08.191 | 098.75 | 102 |
| 10.27 | 0.8375 | 0.2229 | 0.7687 | 0.4546 | 0.3102 | 0.4433 | -0.0053 | -0.0470 | -0.0042 | 0.1331 | 08.084 | 098.75 | 103 |
| 10.40 | 0.8525 | 0.2275 | 0.7827 | 0.4580 | 0.3092 | 0.4436 | -0.0039 | -0.0532 | -0.0037 | 0.1344 | 08.109 | 098.75 | 104 |
| 10.55 | 0.8811 | 0.2317 | 0.8095 | 0.4654 | 0.3093 | 0.4497 | -0.0067 | -0.0450 | -0.0038 | 0.1331 | 07.989 | 098.75 | 105 |
| 10.69 | 0.8962 | 0.2347 | 0.8230 | 0.4717 | 0.3108 | 0.4439 | -0.0007 | -0.0469 | -0.0039 | 0.1331 | 07.954 | 098.75 | 106 |
| 10.87 | 0.9183 | 0.2382 | 0.8434 | 0.4775 | 0.3099 | 0.4443 | -0.0014 | -0.0559 | -0.0042 | 0.1344 | 07.880 | 098.75 | 107 |
| 11.08 | 0.9247 | 0.2431 | 0.8668 | 0.4841 | 0.3088 | 0.4432 | -0.0026 | -0.0570 | -0.0038 | 0.1344 | 07.833 | 098.92 | 108 |
| 11.29 | 0.9759 | 0.2496 | 0.9002 | 0.4956 | 0.3097 | 0.4441 | -0.0026 | -0.0637 | -0.0038 | 0.1344 | 07.737 | 098.92 | 109 |
| 11.50 | 1.0039 | 0.2537 | 0.9218 | 0.5048 | 0.3109 | 0.4466 | -0.0047 | -0.0701 | -0.0040 | 0.1357 | 07.677 | 098.92 | 110 |
| 11.63 | 1.0257 | 0.2572 | 0.9421 | 0.5110 | 0.3106 | 0.4463 | -0.0065 | -0.0659 | -0.0043 | 0.1357 | 07.619 | 098.92 | 111 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSMT TEST 89 | | | |
|---|---------|----------------|---------------|------------|--------|----------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|
| | RUN 027 | MACH NO 2.930 | RN/L 14158488 | Q 2457 PSF | TO 582 | | | | | | | | |
| COEFFICIENTS | | | | | | | | | | | | | |
| ALPHA | N | P _M | L | D | A | A _U | V | Y _H | R _M | A _B | C _P | P _O | P _M |
| 11.70 | 1.0432 | 02.608 | 0.9584 | 0.5161 | 0.3111 | 0.4467 | 0.0066 | -0.0719 | 0.0045 | 0.1357 | 07.594 | 098.92 | 112 |
| 11.79 | 1.0536 | 02.630 | 0.9675 | 0.5217 | 0.3131 | 0.4488 | 0.0065 | -0.0622 | 0.0039 | 0.1356 | 07.583 | 098.75 | 113 |
| 11.76 | 1.0601 | 02.642 | 0.9735 | 0.5351 | 0.3156 | 0.4500 | 0.0066 | -0.0629 | 0.0043 | 0.1344 | 07.571 | 098.75 | 114 |
| 11.85 | 1.0712 | 02.648 | 0.9839 | 0.5271 | 0.3138 | 0.4494 | 0.0085 | -0.0580 | 0.0042 | 0.1356 | 07.510 | 098.75 | 115 |
| 11.85 | 1.0752 | 02.659 | 0.9878 | 0.5260 | 0.3138 | 0.4494 | 0.0146 | -0.0632 | 0.0063 | 0.1356 | 07.512 | 098.58 | 116 |
| 11.86 | 1.0774 | 02.665 | 0.9898 | 0.5294 | 0.3147 | 0.4503 | 0.0085 | -0.0633 | 0.0039 | 0.1356 | 07.513 | 098.58 | 117 |
| 11.85 | 1.0693 | 02.649 | 0.9823 | 0.5258 | 0.3128 | 0.4485 | 0.0065 | -0.0631 | 0.0048 | 0.1357 | 07.527 | 098.92 | 118 |
| 11.85 | 1.0711 | 02.660 | 0.9839 | 0.5220 | 0.3136 | 0.4492 | 0.0086 | -0.0686 | 0.0047 | 0.1356 | 07.543 | 098.75 | 119 |
| 00.14 | 0.0315 | 00.001 | 0.0307 | 0.3183 | 0.3162 | 0.4400 | 0.0015 | -0.0298 | -0.0009 | 0.1218 | 00.089 | 098.75 | 120 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSWT TEST 89 | | | |
|--|---------|--------------|---------|--------|----------|---------|---------|---------|--------|--------------|---------|-----|--|
| RUN 028 MACH NO 2.010 RN/L 11010401 Q 24336 PSF TO 506 | | | | | 10/17/62 | | | | | | | | |
| ALPHA | N | COEFFICIENTS | | | | YM | RM | AB | CP | PD | PNT | | |
| | | L | D | A | AU | | | | | | | | |
| 00.16 | 0.0227 | 0.006 | -0.0216 | 0.3942 | 0.5605 | -0.0043 | -0.0204 | -0.0029 | 0.1663 | 00.868 | 047.35 | 006 | |
| -11.66 | -0.3847 | -02.758 | -0.7919 | 0.500 | 0.3689 | 0.5787 | 0.0683 | 0.0027 | 0.2098 | 09.469 | 047.42 | 007 | |
| -11.45 | -0.8629 | -02.698 | -0.7724 | 0.5335 | 0.3695 | 0.5780 | 0.0708 | 0.0022 | 0.2085 | 09.498 | 047.42 | 008 | |
| -11.22 | -0.8355 | -02.623 | -0.7476 | 0.5268 | 0.3692 | 0.5754 | 0.0653 | 0.0036 | 0.2062 | 09.537 | 047.48 | 009 | |
| -10.99 | -0.8049 | -02.557 | -0.7191 | 0.5191 | 0.3725 | 0.5761 | 0.0720 | 0.0037 | 0.2036 | 09.652 | 047.56 | 010 | |
| -10.76 | -0.7800 | -02.497 | -0.6978 | 0.5103 | 0.3711 | 0.5735 | 0.0685 | 0.0040 | 0.2024 | 09.717 | 047.68 | 011 | |
| -10.52 | -0.7489 | -02.428 | -0.6686 | 0.5014 | 0.3708 | 0.5721 | 0.0671 | 0.0026 | 0.2024 | 09.781 | 047.55 | 012 | |
| -10.30 | -0.7316 | -02.369 | -0.6540 | 0.4926 | 0.3677 | 0.5690 | 0.0657 | 0.0190 | 0.2024 | 09.836 | 047.55 | 013 | |
| -10.04 | -0.7008 | -02.303 | -0.6256 | 0.4804 | 0.3698 | 0.5686 | 0.0643 | 0.0210 | 0.2021 | 09.984 | 047.55 | 014 | |
| -09.79 | -0.6825 | -02.247 | -0.6095 | 0.4817 | 0.3710 | 0.5687 | 0.0627 | 0.0187 | 0.2021 | 09.1977 | 047.61 | 015 | |
| -09.58 | -0.6514 | -02.181 | -0.5806 | 0.4742 | 0.3709 | 0.5669 | 0.0636 | 0.0102 | 0.2018 | 10.1960 | 047.48 | 016 | |
| -09.33 | -0.6302 | -02.116 | -0.5617 | 0.4685 | 0.3712 | 0.5659 | 0.0655 | 0.0135 | 0.2024 | 09.1947 | 047.48 | 017 | |
| -09.08 | -0.6037 | -02.047 | -0.5378 | 0.4600 | 0.3694 | 0.5631 | 0.0608 | 0.0119 | 0.2021 | 09.1937 | 047.55 | 018 | |
| -08.85 | -0.5825 | -01.988 | -0.5185 | 0.4561 | 0.3709 | 0.5590 | 0.0615 | 0.0054 | 0.2026 | 10.304 | 047.55 | 019 | |
| -08.62 | -0.5613 | -01.929 | -0.4989 | 0.4536 | 0.3735 | 0.5621 | 0.0620 | 0.0143 | 0.2021 | 10.369 | 047.55 | 020 | |
| -08.40 | -0.5443 | -01.863 | -0.4840 | 0.4498 | 0.3743 | 0.5616 | 0.0555 | 0.0127 | 0.2019 | 09.1873 | 047.55 | 021 | |
| -08.16 | -0.5266 | -01.818 | -0.4676 | 0.4451 | 0.3742 | 0.5613 | 0.0574 | 0.0065 | 0.2026 | 10.501 | 047.48 | 022 | |
| -07.94 | -0.5022 | -01.758 | -0.4456 | 0.4418 | 0.3760 | 0.5593 | 0.0487 | 0.0023 | 0.2023 | 10.634 | 047.48 | 023 | |
| -07.70 | -0.4882 | -01.707 | -0.4336 | 0.4339 | 0.3749 | 0.5580 | 0.0462 | -0.0004 | 0.2019 | 09.1831 | 047.42 | 024 | |
| -07.48 | -0.4626 | -01.645 | -0.4093 | 0.4319 | 0.3750 | 0.5558 | 0.0473 | 0.0041 | 0.2026 | 10.622 | 047.42 | 025 | |
| -07.24 | -0.4465 | -01.595 | -0.3956 | 0.4294 | 0.3762 | 0.5559 | 0.0447 | 0.0035 | 0.2022 | 0.1797 | 047.55 | 026 | |
| -07.02 | -0.4277 | -01.524 | -0.3785 | 0.4250 | 0.3764 | 0.5559 | 0.0400 | 0.0026 | 0.2024 | 10.855 | 047.55 | 027 | |
| -06.80 | -0.4107 | -01.483 | -0.3633 | 0.4217 | 0.3770 | 0.5542 | 0.0455 | 0.0073 | 0.2024 | 10.827 | 047.55 | 028 | |
| -06.49 | -0.3956 | -01.433 | -0.3504 | 0.4182 | 0.3759 | 0.5533 | 0.0449 | 0.0068 | 0.2028 | 0.1785 | 047.55 | 029 | |
| -06.35 | -0.3784 | -01.380 | -0.3342 | 0.4175 | 0.3780 | 0.5541 | 0.0323 | 0.0008 | 0.2028 | 0.1774 | 047.61 | 030 | |
| -06.10 | -0.3614 | -01.332 | -0.3190 | 0.4159 | 0.3796 | 0.5533 | 0.0277 | 0.0027 | 0.2029 | 0.1762 | 047.61 | 031 | |
| -05.96 | -0.3402 | -01.273 | -0.2997 | 0.4119 | 0.3792 | 0.5516 | 0.0349 | 0.0048 | 0.2017 | 0.1736 | 047.61 | 032 | |
| -05.63 | -0.322 | -01.220 | -0.2935 | 0.4089 | 0.3781 | 0.5492 | 0.0347 | -0.0010 | 0.2025 | 0.1724 | 047.61 | 033 | |
| -05.40 | -0.3142 | -01.183 | -0.2770 | 0.4082 | 0.3804 | 0.5508 | 0.0321 | 0.0037 | 0.2026 | 0.1711 | 047.61 | 034 | |
| -05.15 | -0.3021 | -01.131 | -0.2666 | 0.4000 | 0.3824 | 0.5501 | 0.0297 | 0.0030 | 0.2025 | 0.1704 | 047.42 | 035 | |
| -04.89 | -0.2917 | -01.085 | -0.2581 | 0.4038 | 0.3823 | 0.5509 | 0.0277 | 0.0027 | 0.2029 | 0.1689 | 047.35 | 036 | |
| -04.68 | -0.2718 | -01.030 | -0.2396 | 0.4037 | 0.3828 | 0.5517 | 0.019 | 0.0019 | 0.2029 | 0.1686 | 047.29 | 037 | |
| -04.43 | -0.2607 | -00.975 | -0.2304 | 0.4008 | 0.3818 | 0.5509 | 0.0253 | -0.0046 | 0.2029 | 0.1673 | 047.61 | 038 | |
| -04.20 | -0.2470 | -00.937 | -0.2200 | 0.3992 | 0.3821 | 0.5505 | 0.0270 | 0.0059 | 0.2028 | 0.1679 | 047.61 | 039 | |
| -03.97 | -0.2231 | -00.878 | -0.1960 | 0.3983 | 0.3883 | 0.5506 | 0.0249 | -0.0051 | 0.2029 | 0.1683 | 047.61 | 040 | |
| -03.75 | -0.2191 | -00.831 | -0.1935 | 0.3970 | 0.3863 | 0.5511 | 0.0187 | -0.0057 | 0.2027 | 0.1668 | 047.55 | 041 | |
| -03.50 | -0.1968 | -00.794 | -0.1730 | 0.3952 | 0.3839 | 0.5510 | 0.0106 | -0.0061 | 0.2031 | 0.1671 | 047.55 | 042 | |
| -03.26 | -0.1906 | -00.728 | -0.1684 | 0.3906 | 0.3826 | 0.5499 | 0.0105 | -0.0068 | 0.2026 | 0.1665 | 047.602 | 043 | |
| -03.03 | -0.1753 | -00.692 | -0.1548 | 0.3926 | 0.3841 | 0.5501 | 0.0202 | -0.0021 | 0.2028 | 0.1661 | 047.61 | 044 | |
| -02.81 | -0.1604 | -00.646 | -0.1413 | 0.3933 | 0.3859 | 0.5530 | 0.0181 | -0.0027 | 0.2029 | 0.1666 | 047.61 | 045 | |
| -02.59 | -0.1496 | -00.610 | -0.1321 | 0.3922 | 0.3858 | 0.5529 | 0.0141 | -0.0086 | 0.2029 | 0.1671 | 047.55 | 046 | |
| -02.34 | -0.1390 | -00.558 | -0.1237 | 0.3912 | 0.3858 | 0.5527 | 0.0163 | -0.0096 | 0.2028 | 0.1668 | 047.35 | 047 | |
| -02.11 | -0.1225 | -00.592 | -0.1082 | 0.3906 | 0.3864 | 0.5519 | 0.0183 | -0.0107 | 0.2026 | 0.1656 | 047.210 | 048 | |
| -01.92 | -0.1144 | -00.451 | -0.1014 | 0.3887 | 0.3851 | 0.5517 | 0.0101 | -0.0013 | 0.2026 | 0.1661 | 047.990 | 049 | |
| -01.68 | -0.1014 | -00.422 | -0.0900 | 0.3900 | 0.3841 | 0.5517 | 0.0122 | -0.0073 | 0.2027 | 0.1666 | 047.52 | 050 | |
| -01.47 | -0.0931 | -00.368 | -0.0832 | 0.3863 | 0.3840 | 0.5508 | 0.0124 | -0.0134 | 0.2024 | 0.1668 | 047.48 | 051 | |
| -01.22 | -0.0803 | -00.314 | -0.0720 | 0.3876 | 0.3859 | 0.5533 | 0.0124 | -0.0144 | 0.2024 | 0.1673 | 047.61 | 052 | |
| -00.98 | -0.0676 | -00.266 | -0.0609 | 0.3912 | 0.3901 | 0.5561 | 0.0161 | -0.0205 | 0.2028 | 0.1661 | 047.61 | 053 | |
| -00.76 | -0.0525 | -00.231 | -0.0473 | 0.3920 | 0.3913 | 0.5571 | 0.0043 | -0.0162 | 0.2024 | 0.1658 | 047.55 | 054 | |
| -00.54 | -0.0377 | -00.178 | -0.0340 | 0.3919 | 0.3916 | 0.5574 | 0.0086 | -0.0172 | 0.2027 | 0.1658 | 047.55 | 055 | |
| -00.32 | -0.0317 | -00.130 | -0.0295 | 0.3903 | 0.3903 | 0.5572 | 0.0105 | -0.0181 | 0.2025 | 0.1671 | 047.55 | 056 | |

10/17/62

COEFFICIENTS

| ALPHA | N | PW | L | D | A | AU | V | YN | RM | AB | CP | PO | PW |
|--------|---------|---------|---------|--------|--------|---------|---------|---------|--------|--------|--------|--------|-----|
| -00.08 | -0.0191 | -0.0077 | -0.0186 | 0.3879 | 0.5563 | 0.0106 | -0.0191 | -0.0025 | 0.1683 | 12.256 | 047.55 | 057 | |
| 00.16 | -0.0065 | -0.0030 | -0.0016 | 0.3903 | 0.5571 | 0.0106 | -0.0190 | -0.0022 | 0.1668 | 13.967 | 047.48 | 058 | |
| 00.35 | 0.0043 | 0.0006 | 0.0006 | 0.3694 | 0.5562 | 0.0106 | -0.0206 | -0.0025 | 0.1668 | 047.48 | 059 | | |
| 00.58 | 0.0196 | 0.0053 | 0.0157 | 0.3893 | 0.5567 | 0.0101 | -0.0211 | -0.0029 | 0.1673 | 047.61 | 060 | | |
| 00.80 | 0.0306 | 0.0095 | 0.0232 | 0.3896 | 0.5565 | 0.0097 | -0.0216 | -0.0018 | 0.1673 | 047.61 | 061 | | |
| 01.05 | 0.0435 | 0.0148 | 0.0334 | 0.3898 | 0.5567 | 0.0072 | -0.0170 | -0.0022 | 0.1676 | 10.306 | 047.68 | 062 | |
| 01.24 | 0.0522 | 0.0195 | 0.0438 | 0.3902 | 0.5561 | 0.0091 | -0.0278 | -0.0020 | 0.1661 | 11.333 | 047.61 | 063 | |
| 01.49 | 0.0655 | 0.0231 | 0.0534 | 0.3904 | 0.5560 | 0.0066 | -0.0231 | -0.0018 | 0.1671 | 10.731 | 047.55 | 064 | |
| 01.73 | 0.0719 | 0.0284 | 0.0601 | 0.3923 | 0.5572 | 0.0002 | -0.0236 | -0.0021 | 0.1658 | 12.004 | 047.48 | 065 | |
| 01.95 | 0.0850 | 0.0338 | 0.0676 | 0.3941 | 0.5570 | -0.0001 | -0.0293 | -0.0023 | 0.1656 | 12.056 | 047.48 | 066 | |
| 02.18 | 0.0959 | 0.0385 | 0.0810 | 0.3925 | 0.5560 | -0.0036 | -0.0299 | -0.0020 | 0.1668 | 12.196 | 047.48 | 067 | |
| 02.42 | 0.1066 | 0.0432 | 0.0900 | 0.3934 | 0.5551 | 0.0032 | -0.0255 | -0.0017 | 0.1658 | 12.308 | 047.55 | 068 | |
| 02.64 | 0.1195 | 0.0484 | 0.1015 | 0.3920 | 0.5569 | 0.0042 | -0.0259 | -0.0017 | 0.1613 | 12.316 | 047.55 | 069 | |
| 02.89 | 0.1350 | 0.0532 | 0.1151 | 0.3974 | 0.5569 | 0.0003 | -0.0264 | -0.0017 | 0.1658 | 11.982 | 047.55 | 070 | |
| 03.10 | 0.1536 | 0.0580 | 0.1223 | 0.3961 | 0.5548 | -0.0001 | -0.0270 | -0.0016 | 0.1658 | 12.264 | 047.55 | 071 | |
| 03.34 | 0.1542 | 0.0626 | 0.1313 | 0.3968 | 0.5539 | -0.0016 | -0.0275 | -0.0014 | 0.1661 | 12.334 | 047.55 | 072 | |
| 03.54 | 0.1676 | 0.0669 | 0.1434 | 0.3974 | 0.5537 | 0.0013 | -0.0280 | -0.0014 | 0.1658 | 12.118 | 047.55 | 073 | |
| 03.78 | 0.1807 | 0.0722 | 0.1548 | 0.3984 | 0.5544 | 0.0011 | -0.0336 | -0.0017 | 0.1671 | 12.134 | 047.55 | 074 | |
| 04.03 | 0.1937 | 0.0775 | 0.1660 | 0.4000 | 0.5545 | 0.0024 | -0.0241 | -0.0009 | 0.1671 | 12.159 | 047.55 | 075 | |
| 04.24 | 0.2048 | 0.0823 | 0.1756 | 0.4013 | 0.5541 | 0.0042 | -0.0298 | -0.0009 | 0.1668 | 12.215 | 047.48 | 076 | |
| 04.49 | 0.2280 | 0.0871 | 0.1871 | 0.4020 | 0.5540 | -0.0024 | -0.0302 | -0.0013 | 0.1668 | 12.138 | 047.48 | 077 | |
| 04.71 | 0.2264 | 0.0917 | 0.1961 | 0.4008 | 0.5539 | -0.0047 | -0.0358 | -0.0011 | 0.1683 | 12.306 | 047.55 | 078 | |
| 04.94 | 0.2462 | 0.0959 | 0.2113 | 0.4036 | 0.5522 | -0.0012 | -0.0312 | -0.0005 | 0.1683 | 11.829 | 047.55 | 079 | |
| 05.14 | 0.2244 | 0.1016 | 0.2192 | 0.4038 | 0.5511 | -0.0036 | -0.0369 | -0.0008 | 0.1686 | 12.135 | 047.61 | 080 | |
| 05.39 | 0.2697 | 0.1070 | 0.2316 | 0.4056 | 0.5531 | -0.0020 | -0.0324 | -0.0006 | 0.1711 | 12.050 | 047.61 | 081 | |
| 05.64 | 0.2332 | 0.1118 | 0.2442 | 0.4085 | 0.5526 | -0.0045 | -0.0330 | -0.0004 | 0.1721 | 12.000 | 047.55 | 082 | |
| 05.87 | 0.2281 | 0.1164 | 0.2574 | 0.4114 | 0.5540 | -0.0007 | -0.0335 | -0.0001 | 0.1711 | 11.866 | 047.61 | 083 | |
| 06.10 | 0.2116 | 0.1225 | 0.2694 | 0.4114 | 0.5526 | -0.0027 | -0.0342 | -0.0001 | 0.1721 | 11.945 | 047.55 | 084 | |
| 06.35 | 0.3296 | 0.1268 | 0.2836 | 0.4139 | 0.5524 | -0.0031 | -0.0348 | -0.0005 | 0.1757 | 11.690 | 047.48 | 085 | |
| 06.58 | 0.3295 | 0.1322 | 0.3037 | 0.4171 | 0.5511 | -0.0013 | -0.0406 | 0.0004 | 0.1770 | 11.491 | 047.48 | 086 | |
| 06.81 | 0.3254 | 0.1383 | 0.3178 | 0.4206 | 0.5580 | -0.0035 | -0.0515 | 0.0004 | 0.1780 | 11.499 | 047.42 | 087 | |
| 07.07 | 0.3241 | 0.1427 | 0.3342 | 0.4262 | 0.5518 | -0.0002 | -0.0420 | 0.0017 | 0.1797 | 11.286 | 047.55 | 088 | |
| 07.30 | 0.3276 | 0.1498 | 0.3448 | 0.4220 | 0.5376 | 0.0052 | -0.0375 | -0.0009 | 0.1817 | 11.645 | 047.74 | 089 | |
| 07.53 | 0.4203 | 0.1542 | 0.3672 | 0.4289 | 0.5371 | 0.0015 | -0.0424 | -0.0001 | 0.1802 | 11.144 | 047.68 | 090 | |
| 07.79 | 0.4394 | 0.1599 | 0.3846 | 0.4307 | 0.5375 | 0.0015 | -0.0438 | 0.0011 | 0.1829 | 11.053 | 047.74 | 091 | |
| 08.04 | 0.4642 | 0.1649 | 0.4069 | 0.4379 | 0.5366 | -0.0010 | -0.0342 | 0.0010 | 0.1840 | 10.789 | 047.68 | 092 | |
| 08.28 | 0.4440 | 0.1708 | 0.4421 | 0.4374 | 0.5361 | -0.0012 | -0.0400 | 0.0014 | 0.1853 | 10.720 | 047.68 | 093 | |
| 08.51 | 0.5044 | 0.1763 | 0.4434 | 0.4454 | 0.5379 | 0.0026 | -0.0459 | 0.0020 | 0.1876 | 10.620 | 047.61 | 094 | |
| 08.71 | 0.5171 | 0.1828 | 0.4546 | 0.4475 | 0.5362 | 0.0005 | -0.0420 | 0.0022 | 0.1888 | 10.741 | 047.61 | 095 | |
| 08.97 | 0.5396 | 0.1884 | 0.4715 | 0.4553 | 0.5378 | 0.0044 | -0.0432 | 0.0016 | 0.1886 | 10.609 | 047.55 | 096 | |
| 09.19 | 0.5570 | 0.1932 | 0.4900 | 0.4589 | 0.5367 | 0.0046 | -0.0432 | 0.0018 | 0.1899 | 10.538 | 047.55 | 097 | |
| 09.43 | 0.5333 | 0.1992 | 0.5142 | 0.4640 | 0.5376 | 0.0060 | -0.0456 | 0.0014 | 0.1924 | 10.373 | 047.55 | 098 | |
| 09.63 | 0.5551 | 02.048 | 0.5246 | 0.4663 | 0.5372 | 0.0004 | -0.0470 | 0.0016 | 0.1952 | 10.454 | 047.61 | 099 | |
| 09.83 | 0.6055 | 02.095 | 0.5483 | 0.4700 | 0.5369 | 0.0060 | -0.0483 | 0.0019 | 0.1966 | 10.275 | 047.68 | 100 | |
| 10.16 | 0.6400 | 02.152 | 0.5665 | 0.4733 | 0.5367 | 0.0044 | -0.0443 | 0.0016 | 0.1966 | 10.216 | 047.68 | 101 | |
| 10.27 | 0.6650 | 02.199 | 0.5796 | 0.4794 | 0.5367 | 0.0065 | -0.0456 | 0.0022 | 0.1979 | 10.201 | 047.68 | 102 | |
| 10.38 | 0.6699 | 02.235 | 0.5930 | 0.4845 | 0.5370 | 0.0044 | -0.0413 | 0.0022 | 0.1975 | 10.137 | 047.55 | 103 | |
| 10.57 | 0.7005 | 02.310 | 0.6106 | 0.4911 | 0.5373 | 0.0024 | -0.0528 | 0.0025 | 0.1987 | 09.954 | 047.55 | 104 | |
| 10.75 | 0.7210 | 02.379 | 0.6491 | 0.5002 | 0.5373 | 0.0063 | -0.0481 | 0.0023 | 0.1998 | 09.878 | 047.48 | 105 | |
| 10.92 | 0.7406 | 02.417 | 0.6568 | 0.5054 | 0.5378 | 0.0044 | -0.0507 | 0.0032 | 0.2013 | 09.884 | 047.55 | 106 | |
| | | | | | | | | | | 0.2024 | 09.914 | 047.48 | 107 |

CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89
 RUN 028 MACH NO 2.010 RM/L 11010401 Q 2436 PSF TO 586

| ALPHA | N | PN | L | D | A | AU | Y | YN | RN | AB | COEFFICIENTS | | |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------------|----------|-----|
| | | | | | | | | | | | CP | P0 | PNT |
| 11.13 | 0.7747 | 02.440 | 0.6877 | 0.5173 | 0.3748 | 0.5773 | 0.0145 | -0.0524 | 0.0031 | 0.2025 | 0.9724 | 347.55 | 108 |
| 11.37 | 0.7685 | 02.535 | 0.7001 | 0.5179 | 0.3690 | 0.5738 | 0.0166 | -0.0486 | 0.0030 | 0.2040 | 0.9769 | 347.61 | 109 |
| 11.47 | 0.8159 | 02.586 | 0.7261 | 0.5242 | 0.3693 | 0.5748 | 0.0185 | -0.0497 | 0.0028 | 0.2055 | 0.9628 | 347.68 | 110 |
| 11.57 | 0.8226 | 02.631 | 0.7362 | 0.5308 | 0.3724 | 0.5777 | 0.0186 | -0.0457 | 0.0030 | 0.2053 | 0.9656 | 347.61 | 111 |
| 11.63 | 0.8429 | 02.666 | 0.7514 | 0.5301 | 0.3676 | 0.5742 | 0.0186 | -0.0467 | 0.0030 | 0.2065 | 0.9610 | 347.61 | 112 |
| 11.64 | 0.8474 | 02.674 | 0.7549 | 0.5393 | 0.3720 | 0.5769 | 0.0185 | -0.0415 | 0.0032 | 0.2049 | 0.9585 | 347.48 | 113 |
| 11.69 | 0.8495 | 02.691 | 0.7572 | 0.5331 | 0.3686 | 0.5768 | 0.0187 | -0.0522 | 0.0032 | 0.2062 | 0.9624 | 347.48 | 114 |
| 11.72 | 0.8516 | 02.703 | 0.7591 | 0.5330 | 0.3676 | 0.5738 | 0.0208 | -0.0525 | 0.0033 | 0.2062 | 0.9633 | 347.48 | 115 |
| 11.73 | 0.8549 | 02.705 | 0.7621 | 0.5348 | 0.3687 | 0.5751 | 0.0200 | -0.0576 | 0.0030 | 0.2063 | 0.9614 | 347.55 | 116 |
| 11.76 | 0.8589 | 02.716 | 0.7649 | 0.5402 | 0.3729 | 0.5797 | 0.0226 | -0.0426 | 0.0034 | 0.2067 | 0.9606 | 347.68 | 118 |
| 00.11 | 0.0271 | 00.C07 | 0.0263 | 0.3916 | 0.3916 | 0.5584 | 0.0099 | -0.0204 | -0.0020 | 0.1668 | 00.742 | 0.674.48 | 119 |

| CVC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSWT TEST 89 | | | | | |
|---|---------|----------------|--------------|------------|--------|----------------|---------|----------------|----------------|--------------|---------|----------------|----------------|----------------|--|
| | RUN 029 | MACH NO 0.605 | RNL 08528337 | Q 1131 PSF | TO 582 | | | | | | | | | | |
| ALPHA | N | P _M | L | D | A | A _U | Y | Y _M | R _M | AB | CP | P _O | P _N | P _T | |
| 00.28 | 0.0106 | -0.0100 | 0.0088 | 0.3830 | 0.3829 | 0.3778 | 0.0406 | -0.0869 | 0.0014 | -0.0051 | -05.031 | 039.30 | 006 | | |
| -10.37 | -1.9808 | 05.910 | -1.8868 | 0.6933 | 0.3423 | 0.3656 | 0.0370 | -0.134 | 0.0063 | 0.0143 | -0.065 | 039.27 | 007 | | |
| -09.97 | -1.7826 | 05.304 | -1.6949 | 0.6548 | 0.3516 | 0.3656 | 0.0463 | -0.1309 | 0.0075 | 0.0140 | -0.116 | 039.27 | 008 | | |
| -09.56 | -1.6997 | 05.161 | -1.6169 | 0.6335 | 0.3561 | 0.3690 | 0.0356 | -0.1182 | 0.0063 | 0.0128 | -0.0225 | 039.30 | 009 | | |
| -09.11 | -1.5651 | 04.764 | -1.4887 | 0.6010 | 0.3777 | 0.3679 | 0.0417 | -0.1177 | 0.0060 | 0.0101 | -0.0248 | 039.34 | 010 | | |
| -08.71 | 1.4994 | 04.491 | -1.4174 | 0.5837 | 0.3622 | 0.3719 | 0.0355 | 0.0934 | 0.0045 | 0.0096 | -0.0139 | 039.30 | 011 | | |
| -08.29 | -1.3953 | 04.174 | -1.2820 | 0.5631 | 0.3657 | 0.3753 | 0.0296 | -0.1350 | 0.0047 | 0.0096 | -0.0139 | 039.30 | 012 | | |
| -07.89 | -1.3105 | 03.862 | -1.2475 | 0.5452 | 0.3667 | 0.3751 | 0.0406 | -0.0796 | 0.0060 | 0.0064 | -0.0000 | 039.30 | 013 | | |
| -07.47 | -1.2774 | 03.683 | -1.2190 | 0.5289 | 0.3660 | 0.3737 | 0.0176 | -0.0464 | 0.0057 | 0.0077 | -0.164 | 039.30 | 014 | | |
| -07.06 | -1.1582 | 03.509 | -1.1038 | 0.5107 | 0.3713 | 0.3783 | 0.0159 | -0.1324 | 0.0056 | 0.0070 | -0.0206 | 039.27 | 015 | | |
| -06.67 | -1.0992 | 03.291 | -1.0463 | 0.4988 | 0.3736 | 0.3786 | 0.0236 | -0.0804 | 0.0052 | 0.0049 | -0.0096 | 039.21 | 016 | | |
| -06.29 | -0.9809 | 02.937 | -0.9340 | 0.4797 | 0.3745 | 0.3806 | 0.0276 | -0.0653 | 0.0042 | 0.0061 | -0.0095 | 039.14 | 017 | | |
| -05.86 | -0.8817 | 02.567 | -0.8387 | 0.4645 | 0.3765 | 0.3807 | 0.0230 | -0.0722 | 0.0037 | 0.0042 | -0.0044 | 039.21 | 018 | | |
| -05.44 | -0.8418 | 02.470 | -0.8025 | 0.4535 | 0.3751 | 0.3797 | 0.0277 | -0.1116 | 0.0032 | 0.0044 | -0.013 | 039.24 | 019 | | |
| -05.02 | -0.7810 | 02.280 | -0.7452 | 0.4421 | 0.3753 | 0.3821 | 0.0173 | -0.0352 | 0.0023 | 0.0023 | -0.0000 | 039.18 | 020 | | |
| -04.59 | -0.6804 | 02.010 | -0.6482 | 0.4274 | 0.3761 | 0.3775 | 0.0174 | -0.0168 | 0.0012 | 0.0034 | -0.0177 | 039.24 | 021 | | |
| -04.15 | -0.6016 | 01.712 | -0.5727 | 0.4202 | 0.3776 | 0.3793 | 0.0209 | -0.0054 | -0.0003 | 0.0017 | -0.0445 | 039.24 | 022 | | |
| -03.71 | -0.5600 | 01.528 | -0.5344 | 0.4130 | 0.3775 | 0.3785 | 0.0260 | -0.0408 | 0.0019 | 0.0010 | -0.0200 | 039.21 | 023 | | |
| -03.30 | -0.4619 | 01.261 | -0.4393 | 0.4043 | 0.3783 | 0.3792 | 0.0168 | -0.0773 | 0.0030 | 0.0010 | -0.0291 | 039.24 | 024 | | |
| -02.87 | -0.3918 | 01.082 | -0.3724 | 0.3972 | 0.3781 | 0.3783 | 0.0296 | -0.0758 | 0.0012 | 0.0002 | -0.0368 | 039.21 | 025 | | |
| -02.43 | -0.3558 | 00.959 | -0.3394 | 0.3933 | 0.3785 | 0.3789 | 0.0291 | -0.0337 | 0.0023 | 0.0004 | -0.0177 | 039.27 | 026 | | |
| -02.02 | -0.2809 | 00.759 | -0.2673 | 0.3900 | 0.3803 | 0.3789 | 0.0345 | -0.0779 | 0.0023 | 0.0015 | -0.0152 | 039.24 | 027 | | |
| -01.66 | -0.2293 | 00.575 | -0.2182 | 0.3880 | 0.3816 | 0.3794 | 0.0396 | -0.1125 | 0.0021 | 0.0022 | -0.015 | 039.24 | 028 | | |
| -01.22 | -0.1491 | 00.396 | -0.1410 | 0.3811 | 0.3815 | 0.3806 | 0.0437 | -0.0934 | 0.0021 | 0.0009 | -0.0237 | 039.24 | 029 | | |
| -00.76 | -0.0896 | 00.218 | -0.0845 | 0.3832 | 0.3820 | 0.3820 | 0.0355 | -0.1203 | 0.0018 | 0.0003 | -0.0446 | 039.21 | 030 | | |
| -00.36 | -0.0389 | 00.077 | -0.0365 | 0.3811 | 0.3809 | 0.3791 | 0.0317 | -0.1180 | 0.0007 | 0.0018 | -0.0368 | 039.18 | 030 | | |
| 00.05 | -0.0007 | -0.0004 | 0.3803 | 0.3803 | 0.3785 | 0.0358 | -0.0965 | 0.0006 | 0.0004 | -0.0023 | -0.0003 | 039.24 | 032 | | |
| 00.46 | -0.0759 | -0.0719 | 0.3729 | 0.3766 | 0.3762 | 0.0616 | -0.0808 | 0.0040 | 0.0004 | -0.0003 | -0.0003 | 039.24 | 033 | | |
| 00.99 | -0.1166 | -0.280 | 0.1106 | 0.3833 | 0.3815 | 0.3806 | 0.0437 | -0.0934 | 0.0021 | 0.0009 | -0.283 | 039.21 | 034 | | |
| 01.33 | -0.1871 | -0.478 | 0.1782 | 0.3852 | 0.3810 | 0.3822 | 0.0357 | -0.1098 | 0.0019 | 0.0002 | -0.360 | 039.24 | 035 | | |
| 01.74 | -0.2261 | -0.535 | 0.2144 | 0.3870 | 0.3803 | 0.3780 | 0.0374 | -0.1099 | 0.0017 | 0.0002 | -0.189 | 039.24 | 036 | | |
| 02.18 | -0.2632 | -0.616 | 0.2686 | 0.3902 | 0.3797 | 0.3788 | 0.0328 | -0.1655 | 0.0026 | 0.0009 | -0.272 | 039.21 | 037 | | |
| 02.59 | -0.3840 | -0.936 | 0.2685 | 0.3963 | 0.3794 | 0.3790 | 0.0269 | -0.1548 | 0.0015 | 0.0003 | -0.474 | 039.24 | 038 | | |
| 03.04 | -0.4235 | -0.106 | 0.4027 | 0.4031 | 0.3812 | 0.3816 | 0.0485 | -0.1873 | 0.0040 | 0.0002 | -0.574 | 039.27 | 039 | | |
| 03.41 | -0.5270 | -0.1369 | 0.5031 | 0.4163 | 0.3857 | 0.3803 | 0.0487 | -0.1734 | 0.0032 | 0.0054 | -0.895 | 039.27 | 040 | | |
| 03.84 | -0.5627 | -0.1493 | 0.5361 | 0.4265 | 0.3787 | 0.3789 | 0.0421 | -0.1266 | 0.0035 | 0.0025 | -0.0049 | 039.24 | 041 | | |
| 04.29 | -0.6536 | -0.173 | 0.6234 | 0.4265 | 0.3787 | 0.3758 | 0.0443 | -0.1227 | 0.0042 | 0.0002 | -0.149 | 039.24 | 042 | | |
| 04.68 | 0.7441 | -0.213 | 0.7106 | 0.4401 | 0.3807 | 0.3770 | 0.0292 | -0.0610 | 0.0048 | -0.0037 | -0.217 | 039.21 | 043 | | |
| 05.09 | -0.8082 | -0.222 | 0.7113 | 0.4493 | 0.3791 | 0.3780 | 0.0378 | -0.1294 | 0.0059 | -0.0011 | -0.155 | 039.21 | 044 | | |
| 05.54 | -0.8760 | -0.245 | 0.8357 | 0.4581 | 0.3753 | 0.3735 | 0.0499 | -0.1361 | 0.0060 | -0.0002 | -0.377 | 039.21 | 045 | | |
| 05.95 | -0.9697 | -0.270 | 0.9254 | 0.4751 | 0.3766 | 0.3761 | 0.0403 | -0.1517 | 0.0064 | -0.0005 | -0.843 | 039.21 | 046 | | |
| 06.39 | 1.0518 | -0.295 | 1.0034 | 0.4909 | 0.3762 | 0.3787 | 0.0345 | -0.0913 | 0.0059 | -0.0025 | -0.022 | 039.18 | 047 | | |
| 06.83 | 1.1189 | -0.317 | 1.0665 | 0.5042 | 0.3780 | 0.3720 | 0.0336 | -0.1089 | 0.0067 | -0.0018 | -0.030 | 039.27 | 048 | | |
| 07.24 | 1.2510 | -0.3516 | 1.1942 | 0.5267 | 0.3720 | 0.3781 | 0.0458 | -0.1408 | 0.0061 | -0.0061 | -0.683 | 039.21 | 049 | | |
| 07.68 | 1.3282 | -0.383 | 1.2662 | 0.5488 | 0.3747 | 0.3768 | 0.0212 | -0.1777 | 0.0070 | -0.0021 | -0.791 | 039.21 | 050 | | |
| 08.12 | 1.3991 | -0.405 | 1.3326 | 0.5643 | 0.3705 | 0.3783 | 0.0145 | -0.0884 | 0.0075 | -0.0078 | -0.812 | 039.18 | 051 | | |
| 08.50 | 1.4912 | -0.429 | 1.4210 | 0.5801 | 0.3636 | 0.3732 | 0.0213 | -0.0916 | 0.0093 | -0.0097 | -0.758 | 039.18 | 052 | | |
| 08.86 | 1.6198 | -0.4689 | 1.4437 | 0.6134 | 0.3663 | 0.3753 | 0.0176 | -0.0742 | 0.0125 | -0.0070 | -0.794 | 039.18 | 053 | | |
| 09.17 | 1.6888 | -0.4833 | 1.5884 | 0.6316 | 0.3704 | 0.3776 | 0.0122 | -0.0229 | 0.0132 | -0.0072 | -0.797 | 039.18 | 054 | | |
| 09.40 | 1.7237 | -0.5003 | 1.6412 | 0.6399 | 0.3633 | 0.3756 | 0.0067 | -0.1018 | 0.0104 | -0.0123 | -0.618 | 039.18 | 055 | | |
| 09.65 | 1.7977 | -0.5239 | 1.7118 | 0.6565 | 0.3602 | 0.3693 | 0.0084 | -0.0360 | 0.0119 | -0.0091 | -0.053 | 039.18 | 056 | | |

| CNC HIGH SPEED WIND TUNNEL TEST NUMBER 89 | | | | | | | | | | HSMT TEST 89 | | | | |
|---|---------|---------|---------|--------|--------|--------|---------|---------|--------|--------------|---------|--------|-----|--------------|
| RUN 029 MACH NO 0.605 RM/L 08528337 Q 1131 PSF TO 582 | | | | | | | | | | 10/17/62 | | | | |
| ALPHA | N | PN | L | D | A | AU | Y | YN | RM | AB | CP | PO | PNT | COEFFICIENTS |
| | | | | | | | | | | | | | | |
| 09.99 | 1.8640 | -05.483 | 1.7927 | 0.6833 | 0.4621 | 0.3704 | 0.0058 | -0.0122 | 0.0148 | 0.0063 | -06.862 | 039.18 | 057 | |
| 10.32 | 1.9816 | -05.765 | 1.8846 | 0.7115 | 0.3622 | 0.3687 | -0.0145 | 0.0000 | 0.0137 | 0.0065 | -06.839 | 039.18 | 058 | |
| 10.48 | 2.0116 | -05.911 | 1.9124 | 0.7207 | 0.3610 | 0.3674 | 0.0021 | -0.0124 | 0.0144 | 0.0064 | -06.926 | 039.21 | 059 | |
| 10.53 | 1.9906 | -05.009 | 1.8921 | 0.7133 | 0.3554 | 0.3611 | 0.0025 | 0.0135 | 0.0146 | 0.0057 | -06.865 | 039.18 | 060 | |
| 10.55 | 2.0740 | -06.090 | 1.9739 | 0.7292 | 0.3554 | 0.3663 | -0.0175 | 0.0348 | 0.0148 | 0.0110 | -06.920 | 039.21 | 061 | |
| 10.58 | 1.9573 | -05.761 | 1.8591 | 0.7070 | 0.3535 | 0.3556 | -0.0148 | 0.0014 | 0.0156 | 0.0021 | -06.941 | 039.34 | 062 | |
| 10.32 | 1.9106 | -05.574 | 1.8156 | 0.6965 | 0.3579 | 0.3555 | -0.0097 | -0.0342 | 0.0144 | -0.0024 | -06.862 | 039.88 | 063 | |
| 00.05 | 0.0057 | -00.021 | 0.0054 | 0.3797 | 0.3796 | 0.3758 | 0.0090 | -0.0457 | 0.0012 | -0.0038 | -11.290 | 039.92 | 064 | |
| 00.07 | -0.0095 | -00.003 | -0.0099 | 0.3794 | 0.3794 | 0.3781 | 0.0232 | -0.0641 | 0.0033 | -0.0013 | 00.925 | 038.56 | 065 | |

REFERENCES

1. Simon, E. H. Static Stability Tests on a 0.098 Scale Scout Derivative Model in the Mach Number Range of 0.6 through 5.0, CVC Report 2-59710/2R653 dtd 18 Jan 62.
2. HSWT Staff. High Speed Wind Tunnel Handbook, CVC Report AER-EIR-13552 dtd Sep 62.
3. Wolfe, J. A. Data Reduction Procedures for Typical Force Tests at the Chance Vought High Speed Wind Tunnel, CVC Report AER-EOR-12978 dtd Jun 60.

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| | | |
|---|--|--|
| <p>Air Force Special Weapons Center, Kirtland AF Base, New Mexico</p> <p>Rpt. No. AFSC-TDR-63-21. STATIC STABILITY TESTS ON A 0.098 SCALE - STANDARD LAUNCH VEHICLE (SLV)-1B WITH 4-SQUARE-FOOT FIN AREA. Feb 63. 135P, incl illus, tables, 3 refs.</p> <p>I. AFSC Project 620-850B-7043 Unclassified Report</p> <p>II. Contract AF 29(601)-5603</p> <p>III. Vought Aeronautics, Div. of Chance Vought Corp., Dallas, Tex</p> <p>IV. C. E. Ziegler V. In ASTIA Collection</p> | <p>The purpose of the tests performed in the Chance Vought high-speed wind tunnel was to obtain force data to evaluate the static stability characteristics of the SLV-1B with 4-square-foot fins. The model was instrumented with a six-component internal strain gage balance and two base pressure probes to determine the forces on the model. The model was then placed in the tunnel and tested in the Mach number range of 0.6 through 5.0, and a Reynolds number range of 6 million/ft. to 20 million/ft. The model attitude was varied</p> <p>(○)</p> | <p>1. SLV-1B--Stability 2. Pressure testing 3. Space vehicles--testing 4. Strain gages 5. Wind tunnel testing</p> <p>I. AFSC Project 620-850B-7043 Unclassified Report</p> <p>II. Contract AF 29(601)-5603</p> <p>III. Vought Aeronautics, Div. or Chance Vought Corp., Dallas, Tex</p> <p>IV. C. E. Ziegler V. In ASTIA Collection</p> <p>The purpose of the tests performed in the Chance Vought high-speed wind tunnel was to obtain force data to evaluate the static stability characteristics of the SLV-1B with 4-square-foot fins. The model was instrumented with a six-component internal strain gage balance and two base pressure probes to determine the forces on the model. The model was then placed in the tunnel and tested in the Mach number range of 0.6 through 5.0, and a Reynolds number range of 6 million/ft. to 20 million/ft. The model attitude was varied</p> <p>(○)</p> |
| <p>Air Force Special Weapons Center, Kirtland AF Base, New Mexico</p> <p>Rpt. No. AFSC-TDR-63-21. STATIC STABILITY TESTS ON A 0.098 SCALE - STANDARD LAUNCH VEHICLE (SLV)-1B WITH 4-SQUARE-FOOT FIN AREA. Feb 63. 135P, incl illus, tables, 3 refs.</p> <p>I. AFSC Project 620-850B-7043 Unclassified Report</p> <p>II. Contract AF 29(601)-5603</p> <p>III. Vought Aeronautics, Div. of Chance Vought Corp., Dallas, Tex</p> <p>IV. C. E. Ziegler V. In ASTIA Collection</p> | <p>The purpose of the tests performed in the Chance Vought high-speed wind tunnel was to obtain force data to evaluate the static stability characteristics of the SLV-1B with 4-square-foot fins. The model was instrumented with a six-component internal strain gage balance and two base pressure probes to determine the forces on the model. The model was then placed in the tunnel and tested in the Mach number range of 0.6 through 5.0, and a Reynolds number range of 6 million/ft. to 20 million/ft. The model attitude was varied</p> <p>(○)</p> | <p>1. SLV-1B--Stability 2. Pressure testing 3. Space vehicles--testing 4. Strain gages 5. Wind tunnel testing</p> <p>I. AFSC Project 620-850B-7043 Unclassified Report</p> <p>II. Contract AF 29(601)-5603</p> <p>III. Vought Aeronautics, Div. or Chance Vought Corp., Dallas, Tex</p> <p>IV. C. E. Ziegler V. In ASTIA Collection</p> <p>The purpose of the tests performed in the Chance Vought high-speed wind tunnel was to obtain force data to evaluate the static stability characteristics of the SLV-1B with 4-square-foot fins. The model was instrumented with a six-component internal strain gage balance and two base pressure probes to determine the forces on the model. The model was then placed in the tunnel and tested in the Mach number range of 0.6 through 5.0, and a Reynolds number range of 6 million/ft. to 20 million/ft. The model attitude was varied</p> <p>(○)</p> |

from -10 to +10 degrees in the pitch plane.
The results obtained were force and moment data
in the body axes; these results are presented in
tabulated form with selected coefficients pre-
sented in plotted form.

from -10 to +10 degrees in the pitch plane.
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